Weatherly Index No. 002 **CATALOG NO.** CA0060 April 2011



MACK ENGINES Replacement Parts Catalog

GLOBAL TECHNOLOGY behind every part



RELY ON US TO PROTECT YOUR INVESTMENT.





Complete Overhaul and In-frame kits | Cylinder kits | Pistons Piston rings | Cylinder liners | Gaskets | Engine bearings Crankshafts | Camshafts | Water pumps | Thermostats Oil pumps | Fuel pumps | Fuel injectors | Valves Valvetrain components

Call us today for the complete range of FP Diesel replacement engine components!



Maximizing your equipment investment means finding the best replacement components. That's why OTR fleets choose FP Diesel.

FP Diesel components and kits help fleets of all sizes maximize their capital investment by rebuilding rather than replacing their hardest-working engines. They're designed using the latest in computer-aided design (CAD) and computer-aided engineering (CAE) technology, and are thoroughly researched to meet the most demanding specifications. And they're proven to perform.

With FP Diesel you're getting a better solution in the form of premium technologies engineered to address the unique demands and operating environments of each engine. It's an investment you can make with confidence.







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How to Use This Catalog

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The header for each block listed is designed to help you identify the correct engine application. Special information regarding a specific part is located to the right of the part number listing. Also included for help in finding the correct parts are engine illustrations that include reference numbers corresponding to the reference numbers located next to the part number listings. If available, ENGINE KIT listings are located at the back of the catalog.

Engine components are grouped in the following order:

1st Engine Block and Parts

2nd Cylinder Head and Parts

3rd Crankshaft/Oil Pump and Related Parts

4th Cylinder Components (incl. Rod Bearings, Cylinder Sleeves, Pistons, Piston Rings)

5th Camshaft Group

6th Valvetrain Components

7th Fuel System, Fuel Injectors, Governors and Parts

8th Intake & Exhaust Manifolds including Blowers and Parts

9th Oil Pump and Related Parts

10th Cooling System including Raw, Fresh Water Pumps and Parts

11th Intake & Exhaust Manifolds

The catalog is sorted by ENGINE SERIES with serial number identification charts in front of each section.

Many of the part descriptions will include serial number listings to provide absolute assurance that the correct part is being used.

General Information

This catalog is designed to identify the major components, assemblies and kits used in Mack® engines including the E6 and E7 Series engines and their respective variants.

The catalog includes all of the parts and kits available from FP Diesel for the Mack engines. For reference purposes, the illustrations and tables in this catalog may also include parts and assemblies not currently available from FP Diesel, so that you can identify other parts as needed.

The catalog is organized by engine model. Each section is subdivided into groups that coincide with the various engine assemblies and components.

FP Diesel uses a part numbering system similar to Mack's OEM number. In most instances, the number is the same except that the suffix of the Mack number is omitted (when it serves no applicable purpose). For example:

Mack OEM Part Number 57GC3124

FP Diesel Part Number FP-57GC3124

All manufacturer's numbers, names, symbols and descriptions are used for reference purposes only. It is not implied that any part listed is the product of any specific manufacturer.

All information contained in this catalog is based on the latest data available at the time of printing. Although care has been taken to ensure the accuracy of the data compiled in this catalog, Federal-Mogul does not assume liability for errors or omissions.

IMPORTANT NOTICE:

This catalog does not replace the Mack parts catalogs or service materials. If in doubt, reference your Mack OEM publications.





Mack® Engine Model Designation

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Early Model Designations

E - MACK DIESEL ENGINE

D – DERATED VERSION OF ENGINE

T - TURBOCHARGED

B – MACK DYNATARD® ENGINE BRAKE

A - SINGLE STAGE AFTERCOOLER

S – TWO STAGE AFTERCOOLER

EN – ENGINE

END - NATURALLY ASPIRATED DIESEL

ENDT – TURBOCHARGED DIESEL

ENDTB – TURBOCHARGED DIESEL WITH ENGINE BRAKE

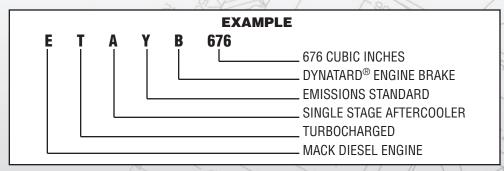
ENDL – LIGHTWEIGHT VERSION OF END

ENDLT – LIGHTWEIGHT VERSION OF ENDT

EMISSION STANDARD DESIGNATIONS:

- Z MAXIMUM 10 GRAMS PER BHP/HR CALIFORNIA 1975 AND 1976. FEDERAL STANDARD 16 GRAMS PER BHP/HR 1975-1977
- Y MAXIMUM 5 GRAMS PER BHP/HR
- X CALIFORNIA ENGINE IN COMPLIANCE WITH 1980-1982 6 GRAMS PER BHP/HR

NUMERICAL DIGITS – INDICATE CUBIC INCH DISPLACEMENT ("5" AS A LAST DIGIT INDICATES MAXIDYNE® TYPE ENGINE)



Current Model Designations

PREFIX LETTERS

.... E - MACK TURBOCHARGED DIESEL ENGINE

.... M - MAXIDYNE ENGINE

.... C - CALIFORNIA CERTIFIED

PREFIX NUMBERS (ENGINE DISPLACEMENT)

.... 6 - 672 CUBIC INCH

.... 7 - 728 CUBIC INCH

.... 9 - 998 CUBIC INCH

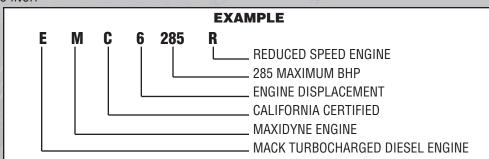
DIGITS

.... XXX – PEAK HORSEPOWER

SUFFIX LETTER

.... L - LOW SPEED MAXIDYNE

.... R - REDUCED ENGINE SPEED



ENGINE INFORMATION PLATE ON **E6-2VH** IS LOCATED BEHIND FUEL INJECTION PUMP ENGINE INFORMATION PLATE ON **E6-4VH** IS LOCATED ON VALVE COVER





Application by Engine Model

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2 Valve Head

ENGINE MODEL	PISTON BODY / ASSY.	CYLINDER KIT*	IN-FRAME KIT
E6-315 / (R)	FP-240GC542C / FP-57GC283A	FP-57GC376	IFK-542C
E6-320	FP-240GC542C / FP-57GC283A	FP-57GC376	IFK-542C
E6-325(R)	FP-240GC542C / FP-57GC283A	FP-57GC376	IFK-542C
E6-335	FP-240GC542C / FP-57GC283A	FP-57GC376	IFK-542C
E6-350 / (R)	FP-240GC542C / FP-57GC283A	FP-57GC376	IFK-542C
EC6-350(R)	FP-240GC542C / FP-57GC283A	FP-57GC376	IFK-542C
EE6-260	FP-240GC542C / FP-57GC283A	FP-57GC376	IFK-542C
EE6-315	FP-240GC542C / FP-57GC283A	FP-57GC376	IFK-542C
EE6-335(B)	FP-240GC542C / FP-57GC283A	FP-57GC376	IFK-542C
EM6-225	FP-240GC542C / FP-57GC283A	FP-57GC376	IFK-542C
EM6-237	FP-240GC542C / FP-57GC283A	FP-57GC376	IFK-542C
EM6-250 / (L)(R)	FP-240GC542C / FP-57GC283A	FP-57GC376	IFK-542C
EM6-275(L)(R)	FP-240GC542C / FP-57GC283A	FP-57GC376	IFK-542C
EM6-285 / (R)	FP-240GC542C / FP-57GC283A	FP-57GC376	IFK-542C
EM6-300(R)	FP-240GC542C / FP-57GC283A	FP-57GC376	IFK-542C
EMC6-300(R)	FP-240GC542C / FP-57GC283A	FP-57GC376	IFK-542C
EME6-250(R)	FP-240GC542C / FP-57GC283A	FP-57GC376	IFK-542C
EME6-285(R)	FP-240GC542C / FP-57GC283A	FP-57GC376	IFK-542C
EME6-300(R)	FP-240GC542C / FP-57GC283A	FP-57GC376	IFK-542C
EME6-310	FP-240GC542C / FP-57GC283A	FP-57GC376	IFK-542C
ETSZ(B)-673A	FP-240GC542C / FP-57GC283A	FP-57GC376	IFK-542C
ETSZ(B)-676 / (A)	FP-240GC542C / FP-57GC283A	FP-57GC376	IFK-542C
ETSZ(B)-677	FP-240GC542C / FP-57GC283A	FP-57GC376	IFK-542C

ENGINE MODEL	PISTON BODY / ASSY.	CYLINDER KIT*	IN-FRAME KIT
E6-200	FP-240GC545D / FP-57GC282A	FP-57GC355B	IFK-545D
EC6-235	FP-240GC545D / FP-57GC282A	FP-57GC355B	IFK-545D
EC6-265	FP-240GC545D / FP-57GC282A	FP-57GC355B	IFK-545D
EC6-275	FP-240GC545D / FP-57GC282A	FP-57GC355B	IFK-545D
EC6-330	FP-240GC545D / FP-57GC282A	FP-57GC355B	IFK-545D
EM6-237(R)	FP-240GC545D / FP-57GC282A	FP-57GC355B	IFK-545D
EMC6-250 / (L)	FP-240GC545D / FP-57GC282A	FP-57GC355B	IFK-545D
EMC6-285(R)	FP-240GC545D / FP-57GC282A	FP-57GC355B	IFK-545D
ETSX-675	FP-240GC545D / FP-57GC282A	FP-57GC355B	IFK-545D
ETSX-676	FP-240GC545D / FP-57GC282A	FP-57GC355B	IFK-545D
ETSX-677	FP-240GC545D / FP-57GC282A	FP-57GC355B	IFK-545D
ETX(B)-673D	FP-240GC545D / FP-57GC282A	FP-57GC355B	IFK-545D
ETY(B)-673E	FP-240GC545D / FP-57GC282A	FP-57GC355B	IFK-545D
ETY(B)-675 / (B)	FP-240GC545D / FP-57GC282A	FP-57GC355B	IFK -545D
ETZ(B)-675 / (B)	FP-240GC545D / FP-57GC282A	FP-57GC355B	IFK-545D
ENDT(B)(F)- 673(A,B,C)	FP-240GC562 / FP-57GC253	FP-57GC366B	IFK-562
ENDT(B)-675	FP-240GC562 / FP-57GC253	FP-57GC366B	IFK-562
ENDT(B)- 676(A,B)	FP-240GC562 / FP-57GC253	FP-57GC366B	IFK-562
ENDT-673C	FP-240GC562 / FP-57GC253	FP-57GC366B	IFK-562
ET(B)-673 / (E)	FP-240GC562 / FP-57GC253	FP-57GC366B	IFK-562
ETA(B)-673A	FP-240GC562 / FP-57GC253	FP-57GC366B	IFK-562
ETA(B)- 676(B,E)	FP-240GC562 / FP-57GC253	FP-57GC366B	IFK-562
ETAY(B)- 673(A,B,C)	FP-240GC562 / FP-57GC253	FP-57GC366B	IFK-562
ETAY(B)-676(D)	FP-240GC562 / FP-57GC253	FP-57GC366B	IFK-562



PLEASE SEE NEXT PAGE.



Application by Engine Model

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4 Valve Head

ENGINE MODEL	PISTON BODY / ASSY.	CYLINDER KIT*	IN-FRAME KIT
EM6-350	FP-240GC577 / 57GC2105	FP-57GC380	IFK-577
E6-315 / (R)	FP-240GC579 / 57GC288	FP-57GC373A	IFK-579
E6-350 / (R)	FP-240GC579 / 57GC288	FP-57GC373A	IFK-579
EC6-300	FP-240GC579 / 57GC288	FP-57GC373A	IFK-579
EC6-350	FP-240GC579 / 57GC288	FP-57GC373A	IFK-579
EM6-250L	FP-240GC579 / 57GC288	FP-57GC373A	IFK-579
EM6-275	FP-240GC579 / 57GC288	FP-57GC373A	IFK-579
EM6-275L	FP-240GC579 / 57GC288	FP-57GC373A	IFK-579

ENGINE MODEL	PISTON BODY / ASSY.	CYLINDER KIT*	IN-FRAME KIT
EM6-285 / (R)	FP-240GC579 / 57GC288	FP-57GC373A	IFK-579
EM6-300 / (R)	FP-240GC579 / 57GC288	FP-57GC373A	IFK-579
EM6-300L	FP-240GC579 / 57GC288	FP-57GC373A	IFK-579
ETSZ(B)-673A	FP-240GC579 / 57GC288	FP-57GC373A	IFK-579
ETSZ(B)-676	FP-240GC579 / 57GC288	FP-57GC373A	IFK-579
ETSZ(B)-676A	FP-240GC579 / 57GC288	FP-57GC373A	IFK-579
ETSZ(B)-677	FP-240GC579 / 57GC288	FP-57GC373A	IFK-579

^{*} FOR CYLINDER KITS USING OVERSIZE LINERS, PLEASE SEE BELOW.

In-Frame Kits

	2 VAL	VE HEAD	Q ,	4 VALVE HE	AD
	IFK-542C	IFK-545D	IFK-562	IFK-577	IFK-579
CYLINDER KITS	/	The contract of the contract o	2.	// //	
1) STD	6) FP-57GC376	6) FP-57GC355B	6) FP-57GC366B	6) FP-57GC380	6) FP-57GC373A
2) .002"	6) FP-57GC376P2	6) FP-57GC355P2	6) FP-57GC366P2	6) FP-57GC380P2	6) FP-57GC373P2
3) .006"	6) FP-57GC376P6	6) FP-57GC355P6	6) FP-57GC366P6	6) FP-57C380P6	6) FP-57GC373P6
4) .012"	6) FP-57GC376P12	6) FP-57GC355P12	6) FP-57GC366P12	6) FP-57GC380P12	6) FP-57GC373P12
5) .020"	6) FP-57GC376P20	6) FP-57GC355P20	6) FP-57GC366P20	6) FP-57GC380P20	6) FP-57GC373P20
MAIN BEARING SETS	MAIN BEARING SETS INC	CLUDE THRUST BEARING	S AND LOCK PINS	7	6
1) STD	1) FP-215SB72DP1	1) FP-215SB72DP1	1) FP-215SB72DP1	1) FP-215SB72DP1	1) FP-215SB72DP1
2) .010"	1) FP-215SB72DP2	1) FP-215SB72DP2	1) FP-215SB72DP2	1) FP-215SB72DP2	1) FP-215SB72DP2
3) .020"	1) FP-215SB72DP3	1) FP-215SB72DP3	1) FP-215SB72DP3	1) FP-215SB72DP3	1) FP-215SB72DP3
4) .030"	1) FP-215SB72DP4	1) FP-215SB72DP4	1) FP-215SB72DP4	1) FP-215SB72DP4	1) FP-215SB72DP4
5) .040"	1) FP-215SB72DP5	1) FP-215SB72DP5	1) FP-215SB72DP5	1) FP-215SB72DP5	1) FP-215SB72DP5
ROD BEARINGS	1911		1/2		41
1) STD	6) FP-62GB2382P1	6) FP-62GB2382P1	6) FP-62GB2382P1	6) FP-62GB2393P1	6) FP-62GB2393P1
2) .010"	6) FP-62GB2382P10	6) FP-62GB2382P10	6) FP-62GB2382P10	6) FP-62GB2393P10	6) FP-62GB2393P10
3) .020"	6) FP-62GB2382P20	6) FP-62GB2382P20	6) FP-62GB2382P20	6) FP-62GB2393P20	6) FP-62GB2393P20
4) .030"	6) FP-62GB2382P30	6) FP-62GB2382P30	6) FP-62GB2382P30	6) FP-62GB2393P30	6) FP-62GB2393P30
	/ \	////周			
IN-FRAME GASKET SET	1) PGM183A-IF	1) PGM183A-IF	1) PGM183A-IF	1) PGM187-IF	1) PGM187-IF





Warranty

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The products listed in this catalog are warranted to be free from defects in material and workmanship, under normal use and service, for two years from date of installation in an engine, without mileage or hour qualification in accordance with the following limited warranty. This warranty is the sole and exclusive warranty for failure of the above parts. This exclusive remedy shall not be deemed to have failed of its essential purpose so long as Federal-Mogul is willing and able to provide the remedy provided below.

WARRANTY LIMITATIONS

Federal-Mogul agrees to only pay for parts and labor needed to repair engine damages that result from the defined warranty failure. The costs are limited to parts and labor necessary for restoring the engine to its condition immediately prior to the failure. Labor costs are determined by current published rates and standards in the geographic area in which repairs are performed. Overtime or holiday rate charges are not allowed. We will also pay for maintenance products such as oil, antifreeze, belts, hoses and filter elements that are damaged because of a defined warranty failure.

Federal-Mogul is not responsible for engine failure resulting from owner, operator or third party neglect or abuse, improper installation or repair procedures, alteration or misapplication of parts, failure to properly service or maintain the engine and vehicle in accordance with applicable OEM operation and maintenance manuals or use in engine modified for competition purposes or used in competition.

OTHER THAN AS EXPRESSLY PROVIDED HEREBY, FEDERAL-MOGUL SHALL NOT, UNDER ANY CIRCUMSTANCES, BE LIABLE FOR ANY SPECIAL, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, INCLUDING, BUT NOT LIMITED TO, DAMAGE OR LOSS OF OTHER PROPERTY OR EQUIPMENT, LOSS OF PROFITS OR REVENUE, TRANSPORTATION AND TOWING COSTS, COST OF PURCHASED OR REPLACED GOOD, OR CLAIMS OF CUSTOMERS OF THE PURCHASER, WHICH MAY ARISE OR RESULT FROM THE SALE, INSTALLATION, OR USE OF THESE PARTS. Some jurisdictions do not allow limitations on how long an implied warranty will last or the exclusion or limitation of incidental or consequential damages, so the limitations or exclusions contained herein may or may not apply to you. This warranty gives you specific legal rights. You may also have other rights depending on the state or province in which you reside.

THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS AND/OR IMPLIED, INCLUDING, WITHOUT LIMITATION, WARRANTIES OF MERCHANTABILITY AND OF FITNESS FOR A PARTICULAR PURPOSE AND THEY ARE EXCLUDED TO THE EXTENT THEY EXCEED THE WARRANTY COVERAGE DESCRIBED BY THIS WARRANTY.

This warranty and remedy apply to new FP Diesel engine parts from Federal-Mogul sold directly to our authorized aftermarket customers as evidenced by completed claim documentation.

No agent or sales representative of Federal-Mogul Corporation has the authority to modify this warranty.

Other Federal-Mogul parts may carry different warranties.

Federal-Mogul must be notified by the customer: (i) before filing a warranty claim, (ii) within one year of the date that the claim accrues, and (iii) before any work has been performed. All claims must be submitted in writing and Federal-Mogul reserves the right to examine all parts, systems and related information associated with the claim. (Note all shipping charges are the responsibility of the end-user or distributor, Federal-Mogul will not accept collect shipments). See your sales representative for detailed claim submission procedures and forms.

Use parts only for applications and interchanges in this catalog.

Failure to heed this warning could result in reduced life or failure of the part. All parts listed in this catalog are not for use in space program, atomic energy/nuclear reactor equipment, medical or aircraft applications. Federal-Mogul reserves the right to make product improvements/changes, with respect to similar products previously manufactured, without notice and without incurring liability.





Warranty

Global Technology Behind Every Part

Les produits indiqués dans ce catalogue sont garantis contre toute défectuosité de matériel et de fabrication, dans des conditions d'utilisation et d'entretien normales, sur une période de deux ans à partir de la date d'installation dans un moteur, sans qualification de kilométrage ou horaire, conformément à la garantie limitée suivante.

Cette garantie est la garantie unique et exclusive pour la défaillance des pièces précitées.

Ce recours exclusif ne doit pas être présumé comme ayant échoué à son objectif essentiel, tant que Federal-Mogul approuve et est capable de fournir le recours fourni ci-dessous.

LIMITATIONS DE GARANTIE

Federal-Mogul accepte uniquement de payer les pièces et la main-d'œuvre nécessaires pour réparer les dommages de moteur qui résultent de la défaillance de la garantie définie. Les coûts sont limités aux pièces et à la main-d'œuvre nécessaires pour la restauration du moteur à l'état auquel il se trouvait juste avant la défaillance.

Les frais de main-d'œuvre sont déterminés par les prix et normes publiés à l'heure actuelle dans la zone géographique dans laquelle les réparations sont effectuées. Les heures supplémentaires ou les frais de jours fériés ne sont pas permis. Nous payons également les produits d'entretien, tels que l'huile, l'antigel, les courroies, les tuyaux et les éléments de filtre qui sont endommagés en raison d'une défaillance de garantie définie.

Federal-Mogul décline toute responsabilité pour une défaillance de moteur découlant d'une négligence ou d'un abus infligés par le propriétaire, l'opérateur ou une tierce partie, de procédures d'installation ou de réparations incorrectes, de l'altération ou d'une application incorrecte de pièces, d'un manque de réparation ou d'entretien adéquat du moteur et du véhicule conformément aux manuels d'utilisation et d'entretien OEM applicables, ou de l'utilisation dans un moteur modifié à des fins de compétition ou utilisé en compétition.

SAUF SUR SPÉCIFICATION EXPRESSE DANS LA PRÉSENTE, FEDERAL-MOGUL NE SERA RESPONSABLE, EN AUCUNE CIRCONSTANCE, POUR DES DOMMAGES SPÉCIAUX, INDIRECTS,

ACCESSOIRES OU CONSÉCUTIFS, Y COMPRIS, SANS S'Y LIMITER, DES DOMMAGES OU LA PERTE D'UNE AUTRE PROPRIÉTÉ OU D'UN AUTRE ÉQUIPEMENT, LA PERTE DE PROFITS OU DE REVENUS, LES FRAIS DE TRANSPORT ET DE REMORQUAGE, LES FRAIS DE BIENS ACHETÉS OU REMPLACÉS, OU LES DEMANDES DE CLIENTS DE L'ACHETEUR, QUI PEUVENT SE PRÉSENTER OU RÉSULTER DE LA VENTE, DE L'INSTALLATION OU DE L'UTILISATION DE CES PIÈCES.

Certaines juridictions ne permettent pas les limites sur la durée d'une garantie implicite, ni l'exclusion ou la limitation de dommages accessoires ou consécutifs, et, par conséquent, les limitations ou exclusions ci-incluses peuvent s'appliquer ou non pour votre cas. Cette garantie vous octroie des droits légaux spécifiques.

Vous disposez également d'autres droits en fonction de l'état ou de la province de votre résidence.

LA PRÉSENTE GARANTIE REMPLACE TOUTES AUTRES GARANTIES, EXPRESSES ET/OU IMPLICITES,
Y COMPRIS, SANS S'Y LIMITER, LES GARANTIES DE QUALITÉ MARCHANDE OU D'ADAPTATION À UN USAGE
PARTICULIER, ET ELLES SONT EXCLUES SI ELLES DEVAIENT DÉPASSER LA COUVERTURE DE GARANTIE
DÉCRITE PAR LA PRÉSENTE GARANTIE.

Cette garantie et le recours s'appliquent aux nouvelles pièces du moteur diesel FP de Federal-Mogul vendu directement à nos clients de pièces de rechange autorisés, tel qu'attesté par les documents de demande dûment remplis. Aucun agent ou représentant de ventes de Federal-Mogul Corporation ne dispose du droit de modifier la présente garantie. D'autres pièces de Federal-Mogul peuvent être couvertes par des garanties différentes.

PROC DURES DE DEMANDE

Le client doit notifier Federal-Mogul : (i) avant de remplir une demande au titre de la garantie, (ii) en l'espace d'un an à partir de la date à laquelle la demande est exercée, et (iii) avant l'exécution d'un travail quelconque.

Toutes les demandes doivent être soumises par écrit et Federal-Mogul se réserve le droit d'examiner toutes les pièces, tous les systèmes et toutes les informations associées à la demande.

(Veuillez noter que l'utilisateur final ou le distributeur est responsable pour tous les frais d'expédition; Federal-Mogul n'accepte aucun envoi en port-dû). Veuillez consulter votre représentant des ventes pour les formulaires et les procédures de soumission de demande détaillés.

AVERTISSEMENT

Utilisez uniquement les pièces pour les applications et les échanges de ce catalogue.

Un manque de respect de cet avertissement pourrait résulter en une durée de vie réduite ou une défaillance de la pièce. Aucune des pièces indiquées dans ce catalogue n'est destinée à être utilisée dans un programme d'espace, pour du matériel de réacteur nucléaire/d'énergie atomique, ou des applications médicales ou d'aéronefs.

Federal-Mogul se réserve le droit d'effectuer des améliorations/changements de produits, en ce qui concerne des produits similaires fabriqués auparavant, sans avis et sans assumer de responsabilité.





Global Technology Behind Every Part

Se garantiza que todos los productos presentados en este catálogo no presentaran defecto alguno, ya sea en su material ni en su fabricación, bajo condiciones de uso y servicio normales. La garantía es de dos años de la fecha de la instalación en el motor, sin límites en el kilometraje o en las horas de funcionamiento. Esta es la única y exclusiva garantía si alguna de las partes listadas fuese a fallar. Este recurso exclusivo no se tomará como una falta, siempre y cuando Federal Mogul pueda remediarlo con las provisiones enumeradas mas abajo.

LIMITACIONES DE LA GARANTIA

Federal-Mogul pagará solo por las partes y la mano de obra necesarias para reparar daños al motor que resulten de una falla definida sobre la parte vendida. Los costos quedarán limitados a las partes y la mano de obra necesarias para restaurar el motor a la condición en la cual se encontraba inmediatamente antes de la falla.

Los costos de la mano de obra se determinarán por medio de precios publicados y estándares del área geográfica en la cual las reparaciones se lleven a cabo. No se permitirá agregar costos de tiempo extra ni por trabajo durante días festivos. Pagaremos por productos de mantenimiento tales como aceite, anti-congelantes, correas, mangueras y filtros dañados debido a alguna falla definida del producto vendido.

Federal-Mogul no se hará responsable por una falla de motor causada por el dueño, operador o un tercero, ya sea por su propia negligencia, abuso o instalación inadecuada o procedimientos de reparación inadecuados, por alteración o aplicación incorrecta de las partes, falta de servicio necesario o mantenimiento del motor o de el vehículo de acuerdo a los manuales de operación y mantenimiento de acuerdo fabricante original, o por la modificación de un motor para su uso en competencias o por haber sido usado en competencias.

FEDERAL-MOGUL NO SERÁ RESPONSABLE, BAJO NINGUNA CIRCUNSTANCIA, OTRO QUE NO SEA LO QUE SE HA MENCIONADO EXPLÍCITAMENTE EN ÉSTA GARANTÍA, POR CUALQUIER DAÑO INDIRECTO, ESPECIAL, ACCIDENTAL O CÓMO CONSECUENCIA DE OTROS DAÑOS, INCLUYENDO, PERO SIN QUE QUÉDE LIMITADO A DAÑOS O PÉRDIDAS DE BIENES O DE EQUIPO, PÉRDIDA DE GANANCIAS O INGRESOS, COSTOS DE GRÚA O TRANSPORTACIÓN, DE PARTES REEMPLAZADAS, O RECLAMOS DE CLIENTES DEL COMPRADOR, QUE PUEDAN RESULTAR DE LA VENTA, INSTALACIÓN, O USO DE ÉSTAS PARTES.

Algunas jurisdicciones no permiten limitaciones con respecto a la duración de garantías implícitas, o a la exclusión o limitación de daños accidentales, por lo tanto puede que las limitaciones o exclusiones contenidas en el presente no le apliquen a Ud. Esta garantía le ofrece derechos específicos. Ud. puede gozar de derechos adicionales dependiendo del estado o provincia en la cual viva.

ÉSTA GARANTIA REEMPLAZARA CUALQUIER Y TODA OTRA GARANTÍA, YA SEA EXPLÍCITA U IMPLÍCITA, INCLUYENDO, PERO NO LIMITANDOSE A GARANTÍAS PARA LA MERCANCÍA Y USO DE LA MISMA CON UN PROPÓSITO EN PARTICULAR, Y ESAS MISMAS QUEDARAN EXCLUIDAS SI EXCEDEN LA COBERTURA DESCRITA EN ÉSTA GARANTÍA.

Ésta garantía y recurso aplican a partes nuevas de motores de FP Diésel, vendidas directamente a nuestros clientes autorizados del mercado de reposición, lo cual será corroborado por medio de documentación usada en el reclamo. Ningún agente o representante de la empresa Federal-Mogul tiene autoridad para modificar ésta garantía.

Otras partes de Federal-Mogul pueden tener garantías diferentes.

PROCEDIMIENTO PARA PRESENTAR UN RECLAMO

Federal-Mogul debe ser notificado por el cliente: (i) antes de presentar un reclamo cubierto en la garantía, (ii) dentro del plazo de un año de ocurrida la falla, y (iii) antes de que se haya hecho algún trabajo.

Todo reclamo debe ser entregado por escrito y Federal-Mogul reserva el derecho a examinar todas las partes, sistemas e información relacionados y asociados al reclamo. (Todo cargo de envío será responsabilidad del usuario final o distribuidor, Federal-Mogul no aceptará envíos a cobrar). Contacte a su representante de ventas para conseguir el formulario de reclamos con el procedimiento detallado.

ADVERTENCIA

Las partes deben ser usadas sólo para las aplicaciones mencionadas en éste catálogo. El no seguir ésta advertencia puede que resulte en que le falle la parte o a que su vida quede reducida. Todas las partes listadas en éste catálogo no están hechas para el uso en programas espaciales, para equipos de energía atómica, o reactores nucleares, o para aplicaciones médicas ni en naves aéreas. Federal-Mogul se reserva el derecho de hacerle mejoras y cambios a los productos, con respecto a productos similares que se hayan fabricado previamente, sin notificación o responsabilidad legal alguna.





	Engine Fin	ding Index	
Engine	Line Years No.	Engine	Line Years No.
1.8L 113 OHV L4 3" Bore F 2.0L 123 OHV L4 3.125" Bor 2.2L 133 OHV L4 3.25" Bor 2.4L 145 OHV L4 3.25" Bor 5.5L 335 (5491cc) OHV Tur Bore (RVI Eng.) M/D Truc 8.4L 510 OHV L6 4.4375" E 11.0L 672 OHV Diesel L6 4 11.0L 672 OHV Turbo-Dies 11.0L 672 OHV Turbo-Dies 11.0L 672 OHV Turbo-Dies	re H/D Truck	11.6L 707 OHV L6 5" Bore H 11.6L 707 OHV Diesel L6 5" 12.1L 728 OHV Turbo-Diese Truck	
		ode Index	
Engine Code	Line Engine Description No.	Engine Code	Engine Description No.
	11.0L 672 OHV Turbo-Diesel L6 4.875" Bore H/D Truck		11.0L 672 OHV Turbo-Diesel L6 4.875" Bore H/D Truck
	4.875" Bore H/D Truck		4.875" Bore H/D Truck 11 11.0L 672 OHV Turbo-Diesel L6
	11.0L 672 OHV Turbo-Diesel L6 4.875" Bore H/D Truck	, ,	4.875" Bore H/D Truck
EC6-350 w/4 Valve Heads	4.875" Bore H/D Truck		11.0L 672 OHV Turbo-Diesel L6 4.875" Bore H/D Truck
` '	11.0L 672 OHV Turbo-Diesel L6 4.875" Bore H/D Truck	EM6-300(R) EM6-300(R) w/4 Valve	11.0L 672 OHV Turbo-Diesel L6 4.875" Bore H/D Truck
	4.875" Bore H/D Truck	Heads	11.0L 672 OHV Turbo-Diesel L6 4.875" Bore H/D Truck
,	4.875" Bore H/D Truck		Truck
	4.875" Bore H/D Truck11.0L 672 OHV Turbo-Diesel L6 4.875" Bore H/D Truck12 11.0L 672 OHV Turbo-Diesel L6		Bore H/D Truck
EMC6-285(R)	4.875" Bore H/D Truck		11.6L 707 OHV L6 5" Bore H/D Truck
EME6-285(R) EME6-285(R) w/4 Valve	11.0L 672 OHV Turbo-Diesel L6 4.875" Bore H/D Truck		Truck
Heads	11.0L 672 OHV Turbo-Diesel L6 4.875" Bore H/D Truck		11.6L 707 OHV L6 5" Bore H/D Truck
	11.0L 672 OHV Turbo-Diesel L6 4.875" Bore H/D Truck		Bore H/D Truck
	4.875" Bore H/D Truck11 11.0L 672 OHV Turbo-Diesel L6 4.875" Bore H/D Truck12	END-673	Bore H/D Truck
	11.0L 672 OHV Turbo-Diesel L6 4.875" Bore H/D Truck		11.0L 672 OHV Diesel L6 4.875" Bore H/D Truck8 11.0L 672 OHV Diesel L6 4.875"
EM6-250(L) w/4 Valve	4.875" Bore H/D Truck 13		Bore H/D Truck
	11.0L 672 OHV Turbo-Diesel L6 4.875" Bore H/D Truck		Bore H/D Truck
EM6-275 w/4 Valve Heads	4.875" Bore H/D Truck		11.0L 672 OHV Diesel L6 4.875" Bore H/D Truck8 11.0L 672 OHV Diesel L6 4.875"
EM6-275(L) w/4 Valve Heads	11.0L 672 OHV Turbo-Diesel L6		Bore H/D Truck 8 11.0L 672 OHV Turbo-Diesel L6
EM6-275(R)	4.875" Bore H/D Truck13 11.0L 672 OHV Turbo-Diesel L6	FND-707	4.875" Bore H/D Truck 9 11.6L 707 OHV Diesel L6 5" Bore



	Engi	ne Co	ode Index		
Engine Code	Engine Description	Line No.	Engine Code	Engine Description	Line No.
END-711	11.6L 707 OHV Diesel L6 5" Bo	re	ET(B)-673	11.0L 672 OHV Turbo-Diesel L	
END-864	H/D Truck 14.2L 864 OHV Diesel V8 5" Bo. H/D Truck	re	ET(B)-673E	4.875" Bore H/D Truck	6
END-865	14.2L 866 OHV Diesel V8 5.25"		ET(B)-673E	11.0L 672 OHV Turbo-Diesel L	6
END-866	Bore H/D Truck "14.2L 866 OHV Diesel V8 5.25"	1	ETA(B)-673A	4.875" Bore H/D Truck 11.0L 672 OHV Turbo-Diesel L	6
ENDD-711	Bore H/D Truck 11.6L 707 OHV Diesel L6 5" Bo	re	ETA(B)-676	4.875" Bore H/D Truck	6
ENDL-673	H/D Truck 11.0L 672 OHV Diesel L6 4.875		ETA(B)-676B	4.875" Bore H/D Truck	6
ENDL-673P	Bore H/D Truck 11.0L 672 OHV Diesel L6 4.875		ETAY(B)-676	4.875" Bore H/D Truck	6
ENDL-711	Bore H/D Truck 11.6L 707 OHV Diesel L6 5" Bo		ETAZ(B)-673	4.875" Bore H/D Truck	11 6
	H/D Truck	15	, ,	4.875" Bore H/D Truck	11
	H/D Truck	15	, ,	4.875" Bore H/D Truck	11
	11.0L 672 OHV Diesel L6 4.875 Bore H/D Truck	8	` '	11.0L 672 OHV Turbo-Diesel L 4.875" Bore H/D Truck	11
` ,	11.0L 672 OHV Turbo-Diesel L6 4.875" Bore H/D Truck	11		11.0L 672 OHV Turbo-Diesel L 4.875" Bore H/D Truck	11
` '	11.0L 672 OHV Turbo-Diesel L6 4.875" Bore H/D Truck	12		11.0L 672 OHV Turbo-Diesel L 4.875" Bore H/D Truck	12
ENDT(B)-676	11.0L 672 OHV Turbo-Diesel L6 4.875" Bore H/D Truck	3	ETSX-676	11.0L 672 OHV Turbo-Diesel L 4.875" Bore H/D Truck	
ENDT(B)-676A	11.0L 672 OHV Turbo-Diesel L6	3	ETSX-677	11.0L 672 OHV Turbo-Diesel L	6
ENDT(B)-676B	4.875" Bore H/D Truck	3	ETSZ(B)-673A	4.875" Bore H/D Truck	6
ENDT(F)-673	4.875" Bore H/D Truck 11.0L 672 OHV Turbo-Diesel L6	3	ETSZ(B)-673A w/4 Valve	4.875" Bore H/D Truck	
ENDT-673	4.875" Bore H/D Truck 11.0L 672 OHV Turbo-Diesel L6			11.0L 672 OHV Turbo-Diesel L 4.875" Bore H/D Truck	13
ENDT-673	4.875" Bore H/D Truck 11.0L 672 OHV Turbo-Diesel L6	9 3	ETSZ(B)-676	11.0L 672 OHV Turbo-Diesel L 4.875" Bore H/D Truck	
	4.875" Bore H/D Truck 11.0L 672 OHV Turbo-Diesel L6	10	ETSZ(B)-676 w/4 Valve	11.0L 672 OHV Turbo-Diesel L	
	4.875" Bore H/D Truck 11.0L 672 OHV Turbo-Diesel L6	9		4.875" Bore H/D Truck	13
	4.875" Bore H/D Truck 11.0L 672 OHV Turbo-Diesel L6	10	` ,	4.875" Bore H/D Truck	
	4.875" Bore H/D Truck	9	ETSZ(B)-676A w/4 Valve Heads	11.0L 672 OHV Turbo-Diesel L	
	11.0L 672 OHV Turbo-Diesel L6 4.875" Bore H/D Truck	10	ETSZ(B)-677	4.875" Bore H/D Truck	6
ENDT-673C	11.0L 672 OHV Turbo-Diesel L6 4.875" Bore H/D Truck	_	ETSZ(B)-677 w/4 Valve	4.875" Bore H/D Truck	11
ENDT-673C	11.0L 672 OHV Turbo-Diesel L6 4.875" Bore H/D Truck	3		11.0L 672 OHV Turbo-Diesel L 4.875" Bore H/D Truck	
ENDT-673C	4.875" Bore H/D Truck	3	ETX(B)-673D	11.0L 672 OHV Turbo-Diesel L	6
ENDT-711	11.6L 707 OHV Diesel L6 5" Bo	re	ETY(B)-673E	4.875" Bore H/D Truck	6
ENDT-865	H/D Truck 14.2L 866 OHV Turbo-Diesel V	8	ETY(B)-675	4.875" Bore H/D Truck	6
ENDT-866	5.25" Bore H/D Truck 14.2L 866 OHV Turbo-Diesel V		ETY(B)-675B	4.875" Bore H/D Truck	12 6
	5.25" Bore H/D Truck	21		4.875" Bore H/D Truck	12
	4.875" Bore H/D Truck 11.6L 707 OHV L6 5" Bore H/D	9	` '	4.875" Bore H/D Truck	12
	Truck	14	,	4.875" Bore H/D Truck	12
	11.6L 707 OHV Diesel L6 5" Bo H/D Truck	15	` ,	11.0L 672 OHV Turbo-Diesel L 4.875" Bore H/D Truck	
	11.6L 707 OHV L6 5" Bore H/D Truck	14	E3-175	5.5L 335 (5491cc) OHV Turbo-Diesel L6 102mm Bore (RVI
	11.6L 707 OHV L6 5" Bore H/D	14	E3-180	Eng.) M/D Truck	
ENF-711	11.6L 707 OHV Diesel L6 5" Bo	re	20 100	Turbo-Diesel L6 102mm Bore (
ENS-707	H/D Truck 11.6L 707 OHV Diesel L6 5" Bo	re	E6-200	Eng.) M/D Truck	6
ENS-711	H/D Truck 11.6L 707 OHV Diesel L6 5" Bo	re	E6-315	4.875" Bore H/D Truck 11.0L 672 OHV Turbo-Diesel L	6
	H/D Truck	15	n novt nogol	4.875" Bore H/D Truck	11



	Engine C	ode Index	
Engine Code	Engine Description Line No.	Engine Code	Line Engine Description No.
	. 11.0L 672 OHV Turbo-Diesel L6	E7 PLN Engs	12.1L 728 OHV Turbo-Diesel L6
F6-315(R)	4.875" Bore H/D Truck	F7-A-SFT-AC	4.875" Bore (E7 PLN) H/D Truck 16 12.1L 728 OHV Turbo-Diesel L6
, ,	4.875" Bore H/D Truck 11	2776021760	4.875" Bore (E7 A-Set) H/D
E6-315(R) w/4 Valve Heads.	. 11.0L 672 OHV Turbo-Diesel L6 4.875" Bore H/D Truck	F7-A-SFT-AI	Truck
E6-320	. 11.0L 672 OHV Turbo-Diesel L6		4.875" Bore (E7 A-Set) H/D
F6-325(R)	4.875" Bore H/D Truck	F7-380	Truck 18 12.1L 728 OHV Turbo-Diesel L6
	4.875" Bore H/D Truck	27 000	4.875" Bore (E7 E-Tech) H/D
	11.0L 672 OHV Turbo-Diesel L6 4.875" Bore H/D Truck	F7-410	Truck
	. 11.0L 672 OHV Turbo-Diesel L6		4.875" Bore (E7 E-Tech) H/D
	4.875" Bore H/D Truck	F7-427	Truck 17 12.1L 728 OHV Turbo-Diesel L6
	4.875" Bore H/D Truck	L1-421	4.875" Bore (E7 E-Tech) H/D
E6-350(R)	. 11.0L 672 OHV Turbo-Diesel L6 4.875" Bore H/D Truck	F7 460	Truck
E6-350(R) w/4 Valve Heads.	. 11.0L 672 OHV Turbo-Diesel L6	E7-400	4.875" Bore (E7 E-Tech) H/D
E7 A CET Enga	4.875" Bore H/D Truck	MIDR 06.02.12	Truck
E/ A-SET Engs	4.875" Bore (E7 A-Set) H/D	MIDR 06.02.12	Turbo-Diesel L6 102mm Bore (RVI
	Truck 18		Eng.) M/D Truck 6
E/ E-TECH (EUP) Engs	. 12.1L 728 OHV Turbo-Diesel L6 4.875" Bore (E7 E-Tech) H/D		
	Truck17		
	Mode	Index	
Model	Engine Description No.	Model	Line Engine Description No.
B15I T	. 11.6L 707 OHV Diesel L6 5" Bore	B633SX	11.0L 672 OHV Diesel L6 4.875"
	H/D Truck		Bore H/D Truck 8
B18X	. 11.0L 672 OHV Diesel L6 4.875" Bore H/D Truck8	B651	11.0L 672 OHV Diesel L6 4.875" Bore H/D Truck
B43S	. 11.0L 672 OHV Diesel L6 4.875"	B67LST	11.0L 672 OHV Diesel L6 4.875"
B43X	Bore H/D Truck	B67I ST	Bore H/D Truck
	Bore H/D Truck 8		H/D Truck 15
B61LS1	. 11.6L 707 OHV Diesel L6 5" Bore H/D Truck 15	B67L1	11.0L 672 OHV Diesel L6 4.875" Bore H/D Truck8
B61LT	. 11.0L 672 OHV Diesel L6 4.875"	B67LT	11.6L 707 OHV Diesel L6 5" Bore
B61S	Bore H/D Truck	B67R	H/D Truck 15 11.0L 672 OHV Diesel L6 4.875"
	Bore H/D Truck 8		Bore H/D Truck 8
B61SE	. 11.0L 672 OHV Diesel L6 4.875" Bore H/D Truck	B67R	11.6L 707 OHV Diesel L6 5" Bore H/D Truck 15
B61ST	. 11.0L 672 OHV Diesel L6 4.875"	B67S	11.0L 672 OHV Diesel L6 4.875"
B61SY	Bore H/D Truck	B67S	Bore H/D Truck
	Bore H/D Truck 8		H/D Truck 15
B61T	. 11.0L 672 OHV Diesel L6 4.875" Bore H/D Truck8	B67ST	11.0L 672 OHV Diesel L6 4.875" Bore H/D Truck8
B61X	. 11.0L 672 OHV Diesel L6 4.875"	B67ST	11.6L 707 OHV Diesel L6 5" Bore
D613I CT	Bore H/D Truck	R6731 ST	H/D Truck 15 11.0L 672 OHV Diesel L6 4.875"
	Bore H/D Truck 8		Bore H/D Truck 8
B613LT	. 11.0L 672 OHV Diesel L6 4.875"	B673LT	11.0L 672 OHV Diesel L6 4.875"
B613S	Bore H/D Truck	B673ST	Bore H/D Truck
	Bore H/D Truck 8		Bore H/D Truck 8
	. 11.0L 672 OHV Diesel L6 4.875" Bore H/D Truck		11.0L 672 OHV Diesel L6 4.875" Bore H/D Truck8
B613SX	. 11.0L 672 OHV Diesel L6 4.875"	B70LS	11.6L 707 OHV L6 5" Bore H/D
B613T	Bore H/D Truck	B70LT	Truck 14 11.6L 707 OHV L6 5" Bore H/D
	Bore H/D Truck 8		Truck14
B63SX	. 11.0L 672 OHV Diesel L6 4.875" Bore H/D Truck8	B70S	11.6L 707 OHV L6 5" Bore H/D Truck 14
B63T	. 11.0L 672 OHV Diesel L6 4.875"	B70ST	11.6L 707 OHV L6 5" Bore H/D
	Bore H/D Truck 8		Truck14



Model Index				
Model	Line Engine Description No.	Model	Line Engine Description No.	
B70T	11.6L 707 OHV L6 5" Bore H/D	C49D	11.0L 672 OHV Diesel L6 4.875"	
B75LS	Truck	C49W	Bore H/D Truck	
B75S	11.0L 672 OHV Diesel L6 4.875"	C491D	11.0L 672 OHV Diesel L6 4.875"	
D76T	Bore H/D Truck		Bore H/D Truck	
	Bore H/D Truck 8		Bore H/D Truck 8	
B753LS		C609LST	11.6L 707 OHV Diesel L6 5" Bore H/D Truck15	
B753LST		C609LT	11.6L 707 OHV Diesel L6 5" Bore	
D752LT	Bore H/D Truck	CEOOST	H/D Truck 15 11.6L 707 OHV Diesel L6 5" Bore	
	Bore H/D Truck 8		H/D Truck 15	
B753S	11.0L 672 OHV Diesel L6 4.875"	C609T	11.6L 707 OHV Diesel L6 5" Bore	
B753T	Bore H/D Truck	C611ST	H/D Truck	
	Bore H/D Truck 8		4.875" Bore H/D Truck 9	
		C611S1		
B81X	11.0L 672 OHV Diesel L6 4.875"	C611T	11.0L 672 OHV Turbo-Diesel L6	
B813SX	Bore H/D Truck	C611T	4.875" Bore H/D Truck 9 11.0L 672 OHV Turbo-Diesel L6	
	Bore H/D Truck 8		4.875" Bore H/D Truck 10	
B813X		DML800		
B8136SX	11.0L 672 OHV Diesel L6 4.875"	DML800	11.0L 672 OHV Turbo-Diesel L6	
D02CT	Bore H/D Truck	DMM6006EX	4.875" Bore H/D Truck	
	Bore H/D Truck8		Bore H/D Truck 8	
B83SX	11.0L 672 OHV Diesel L6 4.875" Bore H/D Truck	DMM6006EX		
B833		DMM6006EX	4.675 Bole H/D Truck s 11.0L 672 OHV Turbo-Diesel L6	
	Bore H/D Truck		4.875" Bore H/D Truck	
	Bore H/D Truck 8		4.875" Bore H/D Truck 11	
B833SX	11.0L 672 OHV Diesel L6 4.875"	DMM6006S	11.0L 672 OHV Turbo-Diesel L6	
B85SX	Bore H/D Truck	DMM6006SX	4.875" Bore H/D Truck	
	Bore H/D Truck 8		4.875" Bore H/D Truck 11	
B8/SX		DMM6006SX		
B873	11.0L 672 OHV Diesel L6 4.875"	DM600S	11.0L 672 OHV Diesel L6 4.875"	
B873SX	Bore H/D Truck	DM600S	Bore H/D Truck	
	Bore H/D Truck8		4.875" Bore H/D Truck 9	
CF600F	11.0L 672 OHV Diesel L6 4.875" Bore H/D Truck	DM600S		
CF600F		DM600S	11.6L 707 OHV Diesel L6 5" Bore	
CE600E	4.875" Bore H/D Truck 9 11.0L 672 OHV Turbo-Diesel L6	DM600SY	H/D Truck	
	4.875" Bore H/D Truck 10		Bore H/D Truck 8	
CS200P	5.5L 335 (5491cc) OHV Turbo-Diesel L6 102mm Bore (RVI	DM600SX		
	Eng.) M/D Truck6	DM600SX		
CS250P		DMCOOCY	4.875" Bore H/D Truck	
	Turbo-Diesel L6 102mm Bore (RVI Eng.) M/D Truck6		H/D Truck 15	
C33D	11.0L 672 OHV Diesel L6 4.875"	DM600X	11.0L 672 OHV Diesel L6 4.875"	
C37D	Bore H/D Truck	DM600X	Bore H/D Truck	
	Bore H/D Truck 8		4.875" Bore H/D Truck	
C43	11.0L 672 OHV Diesel L6 4.875"	DM6006X	11.0L 672 OHV Turbo-Diesel L6	
C43D	Bore H/D Truck	DM6006X	4.875" Bore H/D Truck 9 11.0L 672 OHV Turbo-Diesel L6	
	Bore H/D Truck 8		4.875" Bore H/D Truck	
C45AD		DM607S		
C47D	11.0L 672 OHV Diesel L6 4.875"	DM607S	11.0L 672 OHV Turbo-Diesel L6	
	Bore H/D Truck8	n novt nogo)	4 0 = = 1 D	



Model Index				
Model	Line Engine Description No.	Model	Line Engine Description No.	
DM607SX	11.0L 672 OHV Turbo-Diesel L6	FL700L	11.0L 672 OHV Turbo-Diesel L6	
	4.875" Bore H/D Truck 9		4.875" Bore H/D Truck 10	
DM607SX	11.0L 672 OHV Turbo-Diesel L6 4.875" Bore H/D Truck	FL700L		
DM607X	4.875 Bore H/D Truck 10 11.0L 672 OHV Turbo-Diesel L6	FI 700I	4.875 Bore H/D Truck 1111.0L 672 OHV Turbo-Diesel L6	
	4.875" Bore H/D Truck 9		4 875" Bore H/D Truck 12	
DM607X	11.0L 672 OHV Turbo-Diesel L6	FL700LS	11.0L 672 OHV Diesel L6 4.875"	
DM6076S	4.875" Bore H/D Truck 10 11.0L 672 OHV Turbo-Diesel L6	FI 7001 S	Bore H/D Truck	
	4 875" Bore H/D Truck 9			
DM6076S	11.0L 672 OHV Turbo-Diesel L6	FL700LS	11.0L 672 OHV Turbo-Diesel L6	
DMC44C	4.875" Bore H/D Truck	FL 700LC	4.875" Bore H/D Truck 10 11.0L 672 OHV Turbo-Diesel L6	
DIVI6115	4.875" Bore H/D Truck		4.075" David LI/D Twisk	
DM611S	11.0L 672 OHV Turbo-Diesel L6	FL700LS	4.875 Bore H/D Truck 11 11.0L 672 OHV Turbo-Diesel L6	
	4.875" Bore H/D Truck 12		4.875" Bore H/D Truck	
DM611SX	11.0L 672 OHV Turbo-Diesel L6	FL700LT		
DM611SX	4.875" Bore H/D Truck	FI 7001 T	4.875 Bole H/D Truck	
	4.875" Bore H/D Truck 12		4.875" Bore H/D Truck	
DM6116S	11.0L 672 OHV Turbo-Diesel L6	FS700L	11.0L 672 OHV Diesel L6 4.875"	
DM6116S	4.875" Bore H/D Truck	E9700I	Bore H/D Truck 8 11.0L 672 OHV Turbo-Diesel L6	
DIVIO 1 103	4.875" Bore H/D Truck		4 875" Rore H/D Truck 9	
DM685	11.0L 672 OHV Turbo-Diesel L6	FS700L		
DMAGGE	4.875" Bore H/D Truck	F0700I	4.875" Bore H/D Truck	
DM685	4.875" Bore H/D Truck	F5/00L	4.875" Bore H/D Truck11	
DM685SX	11.0L 672 OHV Turbo-Diesel L6	FS700L		
	4.875" Bore H/D Truck 11		4.875" Bore H/D Truck 12	
DM685SX	11.0L 672 OHV Turbo-Diesel L6 4.875" Bore H/D Truck	FS700LS		
DM686S	4.875 Bole H/D Truck 12	FS700LS		
	4.875" Bore H/D Truck		4 875" Bore H/D Truck 9	
DM686S	11.0L 672 OHV Turbo-Diesel L6	FS700LS	11.0L 672 OHV Turbo-Diesel L6	
DM686SY	4.875" Bore H/D Truck 12 11.0L 672 OHV Turbo-Diesel L6	E9700L9	4.875" Bore H/D Truck	
	4 875" Bore H/D Truck 11		4 875" Bore H/D Truck 11	
DM686SX	11.0L 672 OHV Turbo-Diesel L6	FS700LS	11.0L 672 OHV Turbo-Diesel L6	
DM000C	4.875" Bore H/D Truck 12 11.0L 672 OHV Turbo-Diesel L6	FOZOOL OT	4.875" Bore H/D Truck	
	4 875" Bore H/D Truck 9		4 875" Bore H/D Truck 9	
DM800S	11.0L 672 OHV Turbo-Diesel L6	FS700LST	11.0L 672 OHV Turbo-Diesel L6	
D140000\/	4.875" Bore H/D Truck	50700LT	4.875" Bore H/D Truck 10 11.0L 672 OHV Turbo-Diesel L6	
DM800SX	11.0L 6/2 OHV Turbo-Diesel L6 4.875" Bore H/D Truck 11	FS/00L1	4.875" Bore H/D Truck	
DM800SX	11.0L 672 OHV Turbo-Diesel L6	FS700LT		
	4.875" Bore H/D Truck 12		4.875" Bore H/D Truck 10	
DM811SH	11.0L 672 OHV Turbo-Diesel L6 4.875" Bore H/D Truck	F600		
DM811SH	4.675 Bole H/D Truck	F600LT	H/D Truck	
	4.875" Bore H/D Truck 10		Bore H/D Truck 8	
DM886SX	11.0L 672 OHV Turbo-Diesel L6	F600LT	11.0L 672 OHV Turbo-Diesel L6	
DM886SY	4.875" Bore H/D Truck	F600LT	4.875" Bore H/D Truck 9 11.0L 672 OHV Turbo-Diesel L6	
DIVIDOOSA	4.875" Bore H/D Truck		4.875" Bore H/D Truck	
F	11.0L 672 OHV Turbo-Diesel L6	F600LT	11.6L 707 OHV Diesel L6 5" Bore	
F	4.875" Bore H/D Truck	FOOOT	H/D Truck 15 11.0L 672 OHV Diesel L6 4.875"	
F	11.0L 672 OHV Turbo-Diesel L6 4.875" Bore H/D Truck	F6001	Bore H/D Truck	
F	11.0L 672 OHV Turbo-Diesel L6	F600T	11.0L 672 OHV Turbo-Diesel L6	
Г	4.875" Bore H/D Truck		4.875" Bore H/D Truck 9	
г	11.0L 672 OHV Turbo-Diesel L6 4.875" Bore H/D Truck	F6001		
FL	4.875 Bole H/D Truck 12	F600T	4.675 Bole H/D Truck	
	4.875" Bore H/D Truck 11		H/D Truck	
FL	11.0L 672 OHV Turbo-Diesel L6	F607ST		
FI 700I	4.875" Bore H/D Truck	F607T	Bore H/D Truck	
	Bore H/D Truck 8		Bore H/D Truck 8	
FL700L	11.0L 672 OHV Turbo-Diesel L6	F609T	11.6L 707 OHV Diesel L6 5" Bore	
	4.875" Bore H/D Truck 9		H/D Truck15	



	Model Index				
Model	Engine Description	Line No.	Model	Engine Description	Line No.
F700L	11.0L 672 OHV Diesel L6 4.87		G753LST	11.0L 672 OHV Diesel L6 4.8	
F700L	Bore H/D Truck 11.0L 672 OHV Turbo-Diesel 4.875" Bore H/D Truck	L6	G753LT	Bore H/D Truck 11.0L 672 OHV Diesel L6 4.8 Bore H/D Truck	75"
F700L	11.0L 672 OHV Turbo-Diesel	L6	HHM6006S	11.0L 672 OHV Turbo-Diesel	L6
F700I	4.875" Bore H/D Truck 11.0L 672 OHV Turbo-Diesel	10	HHM6006S	4.875" Bore H/D Truck 11.0L 672 OHV Turbo-Diesel	11
	4.875" Bore H/D Truck	11		4 875" Bore H/D Truck	12
F700L			HMM6006		
F700LS	11.0L 672 OHV Diesel L6 4.87	75"	HMM6006	11.0L 672 OHV Turbo-Diesel	L6
F700LS	Bore H/D Truck 11.0L 672 OHV Turbo-Diesel		H61ST	4.875" Bore H/D Truck 11.0L 672 OHV Diesel L6 4.8	
	4.875" Bore H/D Truck	9		Bore H/D Truck	8
F700LS	11.0L 672 OHV Turbo-Diesel 4.875" Bore H/D Truck		H61T	11.0L 672 OHV Diesel L6 4.8 Bore H/D Truck	75" g
F700LS	11.0L 672 OHV Turbo-Diesel	L6	H63LT	11.0L 672 OHV Diesel L6 4.8	75"
E7001 S	4.875" Bore H/D Truck 11.0L 672 OHV Turbo-Diesel		Перст	Bore H/D Truck 11.0L 672 OHV Diesel L6 4.8	8
	4.875" Bore H/D Truck	12		Bore H/D Truck	8
F700LST	11.0L 672 OHV Diesel L6 4.87 Bore H/D Truck		H63T		
F700LST	11.0L 672 OHV Turbo-Diesel	o L6	H633	11.0L 672 OHV Diesel L6 4.8	o 75"
E7001 CT	4.875" Bore H/D Truck 11.0L 672 OHV Turbo-Diesel	9	Heggi T	Bore H/D Truck 11.0L 672 OHV Diesel L6 4.8	8
F700LS1	4.875" Bore H/D Truck	-		Bore H/D Truck	8
F700LST			H633ST		
F700LST	4.875" Bore H/D Truck 11.0L 672 OHV Turbo-Diesel		H633T	Bore H/D Truck 11.0L 672 OHV Diesel L6 4.8	8 75"
	4.875" Bore H/D Truck	12		Bore H/D Truck	8
	11.6L 707 OHV Diesel L6 5" E H/D Truck	15			8
F700LT	11.0L 672 OHV Turbo-Diesel	L6	H65LT	11.0L 672 OHV Diesel L6 4.8	75"
F700LT	4.875" Bore H/D Truck 11.0L 672 OHV Turbo-Diesel	9 L6	H67LST	Bore H/D Truck 11.0L 672 OHV Diesel L6 4.8	8 75"
	4.875" Bore H/D Truck 11.0L 672 OHV Diesel L6 4.87	10		Bore H/D Truck 11.0L 672 OHV Diesel L6 4.8	8
	Bore H/D Truck	8		Bore H/D Truck	8
F700ST			H67ST	11.0L 672 OHV Diesel L6 4.8	
F700ST	4.875" Bore H/D Truck 11.0L 672 OHV Turbo-Diesel	9 L6	H67T	Bore H/D Truck 11.0L 672 OHV Diesel L6 4.8	8 75"
F700CT	4.875" Bore H/D Truck 11.0L 672 OHV Turbo-Diesel		LICZOL CT	Bore H/D Truck 11.0L 672 OHV Diesel L6 4.8	
	4.875" Bore H/D Truck	11		Bore H/D Truck	8
F700ST	11.0L 672 OHV Turbo-Diesel	L6	H673LT	11.0L 672 OHV Diesel L6 4.8	75"
F700ST	4.875" Bore H/D Truck 11.6L 707 OHV Diesel L6 5" E		H673ST	Bore H/D Truck 	
	H/D Truck 11.0L 672 OHV Diesel L6 4.87	15	LICZOT	Bore H/D Truck 11.0L 672 OHV Diesel L6 4.8	8
	Bore H/D Truck	8		Bore H/D Truck	8
F700T			H69LT		
F700T	4.875" Bore H/D Truck 11.0L 672 OHV Turbo-Diesel		H69T	Bore H/D Truck 11.0L 672 OHV Diesel L6 4.8	8 75"
	4.875" Bore H/D Truck	10		Bore H/D Truck	8
F7001	11.0L 672 OHV Turbo-Diesel 4.875" Bore H/D Truck		H693L1	11.0L 672 OHV Diesel L6 4.8 Bore H/D Truck	
F700T	11.0L 672 OHV Turbo-Diesel	L6	H693T	11.0L 672 OHV Diesel L6 4.8	
F700T	4.875" Bore H/D Truck 11.6L 707 OHV Diesel L6 5" E		LJT1D	Bore H/D Truck 11.0L 672 OHV Diesel L6 4.8	
	H/D Truck	15		Bore H/D Truck	8
		8		11.0L 672 OHV Diesel L6 4.8 Bore H/D Truck	8
F709	11.6L 707 OHV Diesel L6 5" E	Bore	LRX	11.0L 672 OHV Diesel L6 4.8	75"
F786T	H/D Truck 11.0L 672 OHV Turbo-Diesel	15 L6	LR15Y	Bore H/D Truck 11.0L 672 OHV Diesel L6 4.8	8 75"
	4.875" Bore H/D Truck	11		Bore H/D Truck	8
F7861				11.0L 672 OHV Diesel L6 4.8 Bore H/D Truck	8
G75LST	11.0L 672 OHV Diesel L6 4.87	75"	LV	11.0L 672 OHV Diesel L6 4.8	75"
G75l T.	Bore H/D Truck 11.0L 672 OHV Diesel L6 4.87	8 75"	I VX	Bore H/D Truck 11.0L 672 OHV Diesel L6 4.8	8 75"
v=	Bore H/D Truck		- v / \	Bore H/D Truck	



	Model Index						
Model	Line Engine Description No.	Model	Line Engine Description No.				
MB600F	11.0L 672 OHV Turbo-Diesel L6	MC686ST	11.0L 672 OHV Turbo-Diesel L6				
	4.875" Bore H/D Truck 9		4.875" Bore H/D Truck 11 11.0L 672 OHV Turbo-Diesel L6				
MB600F		MC686S1					
MB600P	4.875 Boile H/D Huck	MC686T	4.675 Bole H/D Truck 12				
	Bore H/D Truck 8		4 875" Bore H/D Truck 11				
MB600P	11.0L 672 OHV Turbo-Diesel L6	MC686T	11.0L 672 OHV Turbo-Diesel L6				
MRGOOD	4.875" Bore H/D Truck 9 11.0L 672 OHV Turbo-Diesel L6	Mid Linor	4.875" Bore H/D Truck 12 5.5L 335 (5491cc) OHV				
	4 875" Bore H/D Truck 10	IVIIG LITTET	Turbo-Diesel L6 102mm Bore (RVI				
MB600S			Eng.) M/D Truck				
	Bore H/D Truck8	MR600P	11.0L 672 OHV Turbo-Diesel L6				
		MPGOOD	4.875" Bore H/D Truck 9 11.0L 672 OHV Turbo-Diesel L6				
MB600S	4.875" Bore H/D Truck 9		4 875" Bore H/D Truck 10				
	4.875" Bore H/D Truck	MR600S	11.0L 672 OHV Turbo-Diesel L6				
MB600S			4.875" Bore H/D Truck 9				
MDCOOC	4.875" Bore H/D Truck 11 11.0L 672 OHV Turbo-Diesel L6	MR600S					
NIB0002	4.875" Bore H/D Truck	MR686P	4.875" Bore H/D Truck 10 11.0L 672 OHV Turbo-Diesel L6				
MB600S			4 875" Bore H/D Truck 11				
	H/D Truck 15	MR686P	11.0L 672 OHV Turbo-Diesel L6				
MB600T		MDCCCC	4.875" Bore H/D Truck 12 11.0L 672 OHV Turbo-Diesel L6				
MR600T	Bore H/D Truck	MK6865	11.0L 672 OHV Turbo-Diesei L6 4.875" Bore H/D Truck11				
	4 875" Bore H/D Truck 9	MR686S	11.0L 672 OHV Turbo-Diesel L6				
MB600T	11.0L 672 OHV Turbo-Diesel L6		4.875" Bore H/D Truck				
MDAGAT	4.875" Bore H/D Truck	MS200	5.5L 335 (5491cc) OHV				
MB6001			Turbo-Diesel L6 102mm Bore (RVI Eng.) M/D Truck6				
MB600T		MS200P	Eng.) M/D Truck				
	4 975" Boro H/D Truck 12		Turbo-Diesel L6 102mm Bore (RVI				
MB600T	11.6L 707 OHV Diesel L6 5" Bore		Eng.) M/D Truck				
MDGOET	H/D Truck 15 11.0L 672 OHV Diesel L6 4.875"	MS250	5.L 335 (5491cc) OHV Turbo-Diesel L6 102mm Bore (RVI				
	Bore H/D Truck 8		Eng.) M/D Truck				
MB685		MS250P	5.5Ľ 335 (5491cc) OHV				
	4.875" Bore H/D Truck 11		Turbo-Diesel L6 102mm Bore (RVI				
MB685		MCOEOT	Eng.) M/D Truck				
MC600F	4.675 Bole H/D Truck	IVIS2301	Turbo-Diesel L6 102mm Bore (RVI				
	4 875" Bore H/D Truck 9		Eng \ M/D Truck				
MC600F	11.0L 672 OHV Turbo-Diesel L6		11.0Ĺ 672 OHV Diesel L6 4.875"				
MCGOOD	4.875" Bore H/D Truck 10 11.0L 672 OHV Turbo-Diesel L6	NG1C	Bore H/D Truck				
WC600P	4.875" Bore H/D Truck	No15	Bore H/D Truck8				
MC600P		N61T	11.0L 672 OHV Diesel L6 4.875"				
	4.875" Bore H/D Truck 10		Bore H/D Truck 8				
MC600S		N613LT	11.0L 672 OHV Diesel L6 4.875"				
MC600S	4.875" Bore H/D Truck 9	N613T	Bore H/D Truck 8 11.0L 672 OHV Diesel L6 4.875"				
	4.875" Bore H/D Truck 10		Bore H/D Truck 8				
MC600T	11.0L 672 OHV Turbo-Diesel L6	R	11.0L 672 OHV Turbo-Diesel L6				
MOCCOT	4.875" Bore H/D Truck 9 11.0L 672 OHV Turbo-Diesel L6	Б	4.875" Bore H/D Truck				
MC6001	4.875" Bore H/D Truck	K	11.0L 672 OHV Turbo-Diesel L6 4.875" Bore H/D Truck				
MC685ST		R	11.0L 672 OHV Turbo-Diesel L6				
	4.875" Bore H/D Truck 11		4.875" Bore H/D Truck 11				
MC685ST		R	11.0L 672 OHV Turbo-Diesel L6				
MC685T	4.875" Bore H/D Truck 12 11.0L 672 OHV Turbo-Diesel L6	PD600	4.875" Bore H/D Truck				
	4.875" Bore H/D Truck 11		Bore H/D Truck 8				
MC685T	11.0L 672 OHV Turbo-Diesel L6	RD600	11.0L 672 OHV Turbo-Diesel L6				
MOCOCE	4.875" Bore H/D Truck		4.875" Bore H/D Truck				
MC686P		KD600	11.0L 672 OHV Turbo-Diesel L6 4.875" Bore H/D Truck				
MC686P	4.875" Bore H/D Truck1111.0L 672 OHV Turbo-Diesel L6	RD600	4.875 Bore H/D Truck10. 11.0L 672 OHV Turbo-Diesel L6				
	4.875" Bore H/D Truck 12		4.875" Bore H/D Truck				
MC686S		RD600	11.0L 672 OHV Turbo-Diesel L6				
	4.875" Bore H/D Truck 11 11.0L 672 OHV Turbo-Diesel L6	PD600B	4.875" Bore H/D Truck 12 11.0L 672 OHV Diesel L6 4.875"				
MCCOCC	11 NL 679 NHW Limba Diagol C						



Model Index						
Model	Li Engine Description No	-		ine lo.		
RD600P	11.0L 672 OHV Turbo-Diesel L6		11.0L 672 OHV Turbo-Diesel L6			
RD600P	4.875" Bore H/D Truck 11.0L 672 OHV Turbo-Diesel L6	RD700SX	4.875" Bore H/D Truck 11.0L 672 OHV Turbo-Diesel L6			
RD600P	4.875" Bore H/D Truck 11.0L 672 OHV Turbo-Diesel L6	RD700SX	4.875" Bore H/D Truck 11.0L 672 OHV Turbo-Diesel L6			
RD600P	4.875" Bore H/D Truck 11.0L 672 OHV Turbo-Diesel L6	11 RI	4.875" Bore H/D Truck 11.0L 672 OHV Turbo-Diesel L6	12		
	4 875" Bore H/D Truck	10	4.875" Bore H/D Truck 11.0L 672 OHV Turbo-Diesel L6	9		
		8	4 875" Bore H/D Truck	10		
RD600S				11		
RD600S	11.0L 672 OHV Turbo-Diesel L6	RL	11.0L 672 OHV Turbo-Diesel L6			
RD600S	4.875" Bore H/D Truck 11.0L 672 OHV Turbo-Diesel L6	10 RI 600I	4.875" Bore H/D Truck 11.0L 672 OHV Turbo-Diesel L6	12		
	4.875" Bore H/D Truck	11	4.875" Bore H/D Truck	11		
RD600S		12		12		
RD600ST	11.0L 672 OHV Turbo-Diesel L6	RL600LS		4.4		
RD600ST	4.875" Bore H/D Truck 11.0L 672 OHV Turbo-Diesel L6	9 RL600LS	4.875" Bore H/D Truck 11.0L 672 OHV Turbo-Diesel L6	11		
	4.875" Bore H/D Truck 11.0L 672 OHV Diesel L6 4.875"		4.875" Bore H/D Truck 11.0L 672 OHV Diesel L6 4.875"	12		
	Bore H/D Truck	8	Bore H/D Truck	8		
RD600SX	11.0L 672 OHV Turbo-Diesel L6 4.875" Bore H/D Truck	9	11.0L 672 OHV Turbo-Diesel L6 4.875" Bore H/D Truck	9		
RD600SX	11.0L 672 OHV Turbo-Diesel L6	RL600LST	11.0L 672 OHV Turbo-Diesel L6			
RD600SX	4.875" Bore H/D Truck 11.0L 672 OHV Turbo-Diesel L6	10 RL600LST	4.875" Bore H/D Truck 11.6L 707 OHV Diesel L6 5" Bore	10		
	4.875" Bore H/D Truck 11.0L 672 OHV Turbo-Diesel L6	11 DI 600LT	H/D Truck 11.0L 672 OHV Turbo-Diesel L6	15		
	4.875" Bore H/D Truck	12	4.875" Bore H/D Truck	9		
RD600X	11.0L 672 OHV Diesel L6 4.875" Bore H/D Truck			10		
RD600X	11.0L 672 OHV Turbo-Diesel L6	RL600LT	11.6L 707 OHV Diesel L6 5" Bore			
RD600X	4.875" Bore H/D Truck 11.0L 672 OHV Turbo-Diesel L6	9 RL600ST	H/D Truck	15		
	4.875" Bore H/D Truck 11.0L 672 OHV Diesel L6 4.875"	10	4.875" Bore H/D Truck 11.0L 672 OHV Turbo-Diesel L6	9		
	Bore H/D Truck	8	4 875" Bore H/D Truck	10		
			11.0L 672 OHV Turbo-Diesel L6 4.875" Bore H/D Truck	11		
RD686P	11.0L 672 OHV Turbo-Diesel L6	RL626LS	11.0L 672 OHV Turbo-Diesel L6			
RD686P	4.875" Bore H/D Truck 11.0L 672 OHV Turbo-Diesel L6	10 RL685LS	4.875" Bore H/D Truck 11.0L 672 OHV Turbo-Diesel L6	12		
	4.875" Bore H/D Truck 11.0L 672 OHV Turbo-Diesel L6	11	4.875" Bore H/D Truck 11.0L 672 OHV Turbo-Diesel L6	11		
	4.875" Bore H/D Truck	12	4.875" Bore H/D Truck	12		
RD686S	11.0L 672 OHV Diesel L6 4.875" Bore H/D Truck			11		
RD686S	11.0L 672 OHV Turbo-Diesel L6	RL686LS	11.0L 672 OHV Turbo-Diesel L6			
RD686S	4.875" Bore H/D Truck 11.0L 672 OHV Turbo-Diesel L6	9 RL700L	4.875" Bore H/D Truck 11.0L 672 OHV Turbo-Diesel L6	12		
	4.875" Bore H/D Truck	10 l	4.875" Bore H/D Truck 	9		
		11	4 875" Bore H/D Truck	10		
RD686S	11.0L 672 OHV Turbo-Diesel L6 4.875" Bore H/D Truck			۵		
RD686SX	11.0L 672 OHV Diesel L6 4.875"	RL700LS	11.0L 672 OHV Turbo-Diesel L6			
RD686SX	Bore H/D Truck 11.0L 672 OHV Turbo-Diesel L6	8 RM400X	4.875" Bore H/D Truck 11.0L 672 OHV Diesel L6 4.875"	10		
	4.875" Bore H/D Truck	9	Bore H/D Truck	8		
		10		8		
RD686SX	11.0L 672 OHV Turbo-Diesel L6	RM4004X	11.0L 672 OHV Turbo-Diesel L6			
RD686SX	4.875" Bore H/D Truck 11.0L 672 OHV Turbo-Diesel L6	RM4004X	4.875" Bore H/D Truck 11.0L 672 OHV Turbo-Diesel L6	9		
	4.875" Bore H/D Truck 11.0L 672 OHV Diesel L6 4.875"	12	4.875" Bore H/D Truck 11.0L 672 OHV Diesel L6 4.875"	10		
	Bore H/D Truck	8	Bore H/D Truck	8		
KD700SX	11.0L 672 OHV Turbo-Diesel L6 4.875" Bore H/D Truck			0		



	Model	Index	
	Line		Line
Model	Engine Description No.	Model	Engine Description No.
RM6004X	11.0L 672 OHV Diesel L6 4.875"	RS700L	11.0L 672 OHV Turbo-Diesel L6
RM6004X	Bore H/D Truck8	RS700L	4.875" Bore H/D Truck 11 11.0L 672 OHV Turbo-Diesel L6
	4.875" Bore H/D Truck 11 11.0L 672 OHV Turbo-Diesel L6		4.875" Bore H/D Truck 12 11.0L 672 OHV Turbo-Diesel L6
	4.875" Bore H/D Truck		4 875" Bore H/D Truck 9
RM6006S		RS700LS	11.0L 672 OHV Turbo-Diesel L6
RM6006S	Bore H/D Truck	RS700LST	4.875" Bore H/D Truck
	4.875" Bore H/D Truck		4.875" Bore H/D Truck 9 11.0L 672 OHV Turbo-Diesel L6
	4.875" Bore H/D Truck		4.875" Bore H/D Truck
RM6006SX		RS700S	
RM6006SX	11.0L 672 OHV Turbo-Diesel L6	RS700S	11.0L 672 OHV Turbo-Diesel L6
PM6006SY	4.875" Bore H/D Truck 9 11.0L 672 OHV Turbo-Diesel L6	PS700S	4.875" Bore H/D Truck
	4.875" Bore H/D Truck		4 875" Bore H/D Truck 11
RM686SX		RS700S	11.0L 672 OHV Turbo-Diesel L6 4.875" Bore H/D Truck
RM686SX	11.0L 672 OHV Turbo-Diesel L6	RS706S	11.0L 672 OHV Turbo-Diesel L6
DM8668	4.875" Bore H/D Truck	PS706S	4.875" Bore H/D Truck 9 11.0L 672 OHV Turbo-Diesel L6
	4.875" Bore H/D Truck		4.875" Bore H/D Truck
RM866S		RS706S	
RS600L	4.675 Boile H/D Truck12	RS706S	4.675 Bole H/D Huck11
DSCOOL	4.875" Bore H/D Truck 9 11.0L 672 OHV Turbo-Diesel L6	DC791	4.875" Bore H/D Truck
	4.875" Bore H/D Truck 10		4 875" Rore H/D Truck 9
RS600L		RS781	11.0L 672 OHV Turbo-Diesel L6 4.875" Bore H/D Truck
RS600L	11.0L 672 OHV Turbo-Diesel L6	RS781	
PS600LS	4.875" Bore H/D Truck		4.875" Bore H/D Truck 11 11.0L 672 OHV Turbo-Diesel L6
	Bore H/D Truck 8		4 875" Bore H/D Truck 12
RS600LS	11.0L 672 OHV Turbo-Diesel L6	RS785	11.0L 672 OHV Turbo-Diesel L6
RS600LT	4.875" Bore H/D Truck	RS785	4.875" Bore H/D Truck 10 11.0L 672 OHV Turbo-Diesel L6
	4.875" Bore H/D Truck 9		4 875" Bore H/D Truck 11
RS600LT			
RS626LS	11.0L 672 OHV Turbo-Diesel L6	R600LST	11.0L 672 OHV Diesel L6 4.875"
RS626LS	4.875" Bore H/D Truck 9 11.0L 672 OHV Turbo-Diesel L6	R600I T	Bore H/D Truck 8 11.0L 672 OHV Diesel L6 4.875"
	4.875" Bore H/D Truck 10		Bore H/D Truck
RS626LS			11.6L 707 OHV Diesel L6 5" Bore H/D Truck15
RS626LS	11.0L 672 OHV Turbo-Diesel L6	R600S	11.6L 707 OHV Diesel L6 5" Bore
RS685LS	4.875" Bore H/D Truck 12 11.0L 672 OHV Turbo-Diesel L6	R600ST	H/D Truck
	4.875" Bore H/D Truck 9		Bore H/D Truck 8
RS685LS			11.6L 707 OHV Diesel L6 5" Bore H/D Truck
RS685LS	11.0L 672 OHV Turbo-Diesel L6	R600T	11.0L 672 OHV Diesel L6 4.875"
RS685LS	4.875" Bore H/D Truck 11 11.0L 672 OHV Turbo-Diesel L6	R600T	Bore H/D Truck 8 8 11.0L 672 OHV Turbo-Diesel L6
	4.875" Bore H/D Truck		4.875" Bore H/D Truck 11
			11.0L 672 OHV Turbo-Diesel L6 4.875" Bore H/D Truck
RS686LS	11.0L 672 OHV Turbo-Diesel L6	R600T	11.6L 707 OHV Diesel L6 5" Bore
RS686LS	4.875" Bore H/D Truck 10 11.0L 672 OHV Turbo-Diesel L6	R607ST	H/D Truck
	4.875" Bore H/D Truck 11 11.0L 672 OHV Turbo-Diesel L6		Bore H/D Truck 8 11.0L 672 OHV Diesel L6 4.875"
	4.875" Bore H/D Truck		Bore H/D Truck 8
RS700L	11.0L 672 OHV Turbo-Diesel L6	R609LT	11.6L 707 OHV Diesel L6 5" Bore
RS700L	4.875" Bore H/D Truck 9 11.0L 672 OHV Turbo-Diesel L6	R609ST	H/D Truck 15 11.6L 707 OHV Diesel L6 5" Bore
	4.875" Bore H/D Truck 10		H/D Truck 15



Model Index							
Model	Line Engine Description No.	Model	· · · · · · · · · · · · · · · · · · ·	₋ine No.			
R609T	11.6L 707 OHV Diesel L6 5" Bore	U607ST	11.0L 672 OHV Diesel L6 4.875"				
R611ST	H/D Truck	U607TZ	Bore H/D Truck11.0L 672 OHV Diesel L6 4.875" Bore H/D Truck	-			
R611T	11.0L 672 OHV Diesel L6 4.875"	U607X	11.0L 672 OHV Diesel L6 4.875"	_			
R700LS	Bore H/D Truck	U609LST	Bore H/D Truck11.6L 707 OHV Diesel L6 5" Bore H/D Truck	•			
R700S	11.6L 707 OHV Diesel L6 5" Bore H/D Truck	U609LT	11.6L 707 OHV Diesel L6 5" Bore H/D Truck	,			
	11.0L 672 OHV Turbo-Diesel L6 4.875" Bore H/D Truck		11.0L 672 OHV Turbo-Diesel L6	_			
	11.0L 672 OHV Turbo-Diesel L6 4.875" Bore H/D Truck		11.0L 672 OHV Turbo-Diesel L6 4.875" Bore H/D Truck	. 10			
	11.0L 672 OHV Turbo-Diesel L6 4.875" Bore H/D Truck		11.6L 707 OHV Diesel L6 5" Bore H/D Truck				
	11.0L 672 OHV Turbo-Diesel L6 4.875" Bore H/D Truck		11.0L 672 OHV Turbo-Diesel L6 4.875" Bore H/D Truck	9			
	11.6L 707 OHV Diesel L6 5" Bore H/D Truck		11.0L 672 OHV Turbo-Diesel L6 4.875" Bore H/D Truck	. 10			
	11.0L 672 OHV Diesel L6 4.875" Bore H/D Truck		11.0L 672 OHV Turbo-Diesel L6 4.875" Bore H/D Truck	9			
	11.6L 707 OHV Diesel L6 5" Bore H/D Truck		11.0L 672 OHV Turbo-Diesel L6 4.875" Bore H/D Truck	. 10			
	Bore H/D Truck		11.0L 672 OHV Turbo-Diesel L6 4.875" Bore H/D Truck	9			
	H/D Truck		4.875" Bore H/D Truck	. 10			
	Bore H/D Truck 8		4.875" Bore H/D Truck	9			
	11.0L 672 OHV Turbo-Diesel L6 4.875" Bore H/D Truck		4.875" Bore H/D Truck	. 10			
	4.875" Bore H/D Truck		4.875" Bore H/D Truck	. 11			
	H/D Truck		4.875" Bore H/D Truck	. 12			
	Bore H/D Truck		4.875" Bore H/D Truck	. 11			
	4.875" Bore H/D Truck		4.875" Bore H/D Truck 11.0L 672 OHV Turbo-Diesel L6				
U600T	4.875" Bore H/D Truck	WL700L	4.875" Bore H/D Truck				
U600T	11.0L 672 OHV Turbo-Diesel L6 4.875" Bore H/D Truck	WS700L	11.0L 672 OHV Turbo-Diesel L6 4.875" Bore H/D Truck				
U600T	11.6L 707 OHV Diesel L6 5" Bore H/D Truck	WS700L	11.0L 672 OHV Turbo-Diesel L6 4.875" Bore H/D Truck				
U600X	11.0L 672 OHV Diesel L6 4.875" Bore H/D Truck		11.0L 672 OHV Turbo-Diesel L6 4.875" Bore H/D Truck				
U600X	11.6L 707 OHV Diesel L6 5" Bore H/D Truck	WS700LS	11.0L 672 OHV Turbo-Diesel L6 4.875" Bore H/D Truck				

1 *H/D Truck* 1.6L 98 OHV L4, 3.125" Bore

	1.02 00 OTTV E1, 0.120 D010			
	ENGINE BLOCK & PARTS			
QTY 1	CAM BEARINGS Cam Set	PART NO. FP-1158M	SIZE STD	DESCRIPTION
	CRANKSHAFT/OIL PUMP		0.2	
QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Main Set	FP-4004M	STD	W/Single flanged front brg.
1	Main Set	FP-4004M10	10	W/Single flanged front brg.
1	Main Set	FP-4004M20	20	W/Single flanged front brg.
1	Main Set	FP-4005M	STD	W/Straight shell front brg.
1	Main Set	FP-4005M10	10	W/Straight shell front brg.
1	Main Set	FP-4005M20	20	W/Straight shell front brg.
1	Main Set	FP-6632M	STD	W/Straight shell front brg. & thrust washer
1	Main Set	FP-6632M10	10	W/Straight shell front brg. & thrust washer
1	Main Set	FP-6632M20	20	W/Straight shell front brg. & thrust washer



H/D Truck 1.6L 98 OHV L4, 3.125" Bore (cont.) **CRANKSHAFT/OIL PUMP (cont.)** QTY MAIN BEARINGS (cont.) PART NO. SIZE DESCRIPTION Main Set FP-6632M30 W/Straight shell front brg. & thrust washer Main Set 4005M + Std-20 W/Straight shell front brg.; When depleted use FP-4005M Thrust Washer Set FP-9811BFA Position 1; Use w/straight shell main brg. set FP-9811BF Thrust Washer Set Position 1; Use w/Flanged main brg. CYLINDER COMPONENTS CONNECTING RODS & QTY BRGS. PART NO. SIZE DESCRIPTION Position 1-3 Rod Pair 2 FP-9320CPA STD 2 Rod Pair FP-9320CPA10 Position 1-3 10 2 Rod Pair FP-9320CPA20 Position 1-3 20 Rod Pair FP-9320CPA30 30 Position 1-3 2 Rod Pair FP-9320CPA40 40 Position 1-3 FP-9320CP Rod Pair STD Position 2-4 2 Rod Pair FP-9320CP10 10 Position 2-4 Position 2-4 2 Rod Pair FP-9320CP20 20 Rod Pair Position 2-4 FP-9320CP30 30 Rod Pair FP-9320CP40 Position 2-4 40 H/D Truck 2 1.8L 113 OHV L4, 3" Bore **ENGINE BLOCK & PARTS QTY CAM BEARINGS** PART NO. SIZE **DESCRIPTION** Cam Set FP-1158M STD CRANKSHAFT/OIL PUMP MAIN BEARINGS PART NO. SIZE **DESCRIPTION** Main Set FP-4004M W/Single flanged front brg. STD Main Set FP-4004M10 W/Single flanged front brg. 10 Main Set FP-4004M20 W/Single flanged front brg. 20 W/Straight shell front brg. Main Set FP-4005M STD W/Straight shell front brg. 1 Main Set FP-4005M10 10 W/Straight shell front brg. Main Set FP-4005M20 20 1 Main Set FP-6632M STD W/Straight shell front brg. & thrust washer W/Straight shell front brg. & thrust washer 1 Main Set FP-6632M10 10 Main Set W/Straight shell front brg. & thrust washer 1 FP-6632M20 Main Set FP-6632M30 W/Straight shell front brg. & thrust washer 1 Main Set 4005M + Std-20 W/Straight shell front brg.; When depleted use FP-4005M FP-9811BFA Thrust Washer Set Position 1; Use w/straight shell main brg. set 1 Thrust Washer Set FP-9811BF Position 1; Use w/Flanged main brg. CYLINDER COMPONENTS **CONNECTING RODS &** BRGS. QTY SIZE DESCRIPTION PART NO. Rod Pair Position 1-3 FP-9320CPA STD Position 1-3 2 FP-9320CPA10 Rod Pair 10 Rod Pair FP-9320CPA20 20 Position 1-3 2 Rod Pair FP-9320CPA30 Position 1-3 30 Rod Pair FP-9320CPA40 40 Position 1-3 2 Rod Pair FP-9320CP STD Position 2-4 2 Rod Pair FP-9320CP10 10 Position 2-4 2 Rod Pair FP-9320CP20 20 Position 2-4 2 FP-9320CP30 Position 2-4 Rod Pair 30 2 Rod Pair FP-9320CP40 Position 2-4 40 H/D Truck 2.0L 123 OHV L4, 3.125" Bore **ENGINE BLOCK & PARTS** QTY CAM BEARINGS PART NO. SIZE **DESCRIPTION** Cam Set FP-1158M STD **CRANKSHAFT/OIL PUMP QTY MAIN BEARINGS** PART NO. **DESCRIPTION** SIZE Main Set FP-4004M W/Single flanged front brg. STD FP-4004M10 W/Single flanged front brg. 1 Main Set 10 Main Set FP-4004M20 20 W/Single flanged front brg. FP-4005M Main Set STD W/Straight shell front brg.



3	H/D Truck at.) 2.0L 123 OHV L4, 3.125" Bore			
_	CRANKSHAFT/OIL PUMP (cont.)			
	MAIN BEARINGS (cont.)	PART NO.	SIZE	DESCRIPTION
1	Main Set	FP-4005M10	-	W/Straight shell front brg.
1	Main Set	FP-4005M20		W/Straight shell front brg.
1	Main Set	FP-6632M		W/Straight shell front brg. & thrust washer
1 1	Main Set	FP-6632M10		W/Straight shell front brg. & thrust washer
1	Main Set Main Set	FP-6632M20		W/Straight shell front brg. & thrust washer
	Main Set	FP-6632M30 4005M + Std-20	30	W/Straight shell front brg. & thrust washer W/Straight shell front brg.; When depleted use FP-4005M
1 1	Thrust Washer Set	FP-9811BFA		Position 1; Use w/straight shell main brg. set
1	Thrust Washer Set	FP-9811BF		Position 1; Use w/Flanged main brg.
	CYLINDER COMPONENTS			
	CONNECTING RODS &			
	BRGS.	PART NO.	SIZE	DESCRIPTION
2	Rod Pair	FP-9320CPA	STD	Position 1-3
2 2	Rod Pair Rod Pair	FP-9320CPA10	10	
2	Rod Pair	FP-9320CPA20 FP-9320CPA30	20 30	Position 1-3 Position 1-3
2	Rod Pair	FP-9320CPA30 FP-9320CPA40		Position 1-3
2	Rod Pair	FP-9320CP	STD	Position 2-4
2	Rod Pair	FP-9320CP10	10	Position 2-4
2	Rod Pair	FP-9320CP20	20	Position 2-4
2	Rod Pair	FP-9320CP30	30	Position 2-4
2	Rod Pair	FP-9320CP40	40	Position 2-4
4	. <i>H/D Truck</i> 2.2L 133 OHV L4, 3.25" Bore			
	ENGINE BLOCK & PARTS			
QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Cam Set	FP-1158M	STD	
	CRANKSHAFT/OIL PUMP	0.407.10		PEOPLETICAL
1 -	MAIN BEARINGS	PART NO.	SIZE	
1 1	Main Set Main Set	FP-4004M FP-4004M10		W/Single flanged front brg. W/Single flanged front brg.
	Main Set	FP-4004M20		W/Single flanged front brg.
1	Main Set	FP-4005M	STD	W/Straight shell front brg.
1	Main Set	FP-4005M10		W/Straight shell front brg.
1	Main Set	FP-4005M20	20	W/Straight shell front brg.
1	Main Set	FP-6632M		W/Straight shell front brg. & thrust washer
1	Main Set	FP-6632M10		W/Straight shell front brg. & thrust washer
1 1	Main Set	FP-6632M20		W/Straight shell front brg. & thrust washer
1 1	Main Set Main Set	FP-6632M30 4005M + Std-20	30	W/Straight shell front brg. & thrust washer W/Straight shell front brg.; When depleted use FP-4005M
	Thrust Washer Set	FP-9811BFA		Position 1; Use w/straight shell main brg. set
1	Thrust Washer Set	FP-9811BF		Position 1; Use w/Flanged main brg.
	CYLINDER COMPONENTS			, , ,
	CONNECTING RODS &			
	BRGS.	PART NO.		DESCRIPTION
2	Rod Pair	FP-9320CPA	-	Position 1-3
2	Rod Pair	FP-9320CPA10		Position 1-3
2 2	Rod Pair Rod Pair	FP-9320CPA20 FP-9320CPA30		Position 1-3 Position 1-3
2	Rod Pair	FP-9320CPA30 FP-9320CPA40		Position 1-3
2	Rod Pair	FP-9320CP		Position 2-4
2	Rod Pair	FP-9320CP10		Position 2-4
2	Rod Pair	FP-9320CP20		Position 2-4
2	Rod Pair	FP-9320CP30		Position 2-4
2	Rod Pair	FP-9320CP40	40	Position 2-4
5	<i>H/D Truck</i> 2.4L 145 OHV L4, 3.25" Bore			
	ENGINE BLOCK & PARTS			
1 1	CAM BEARINGS	PART NO.		DESCRIPTION
1	Cam Set	FP-1158M	STD ed on nex	



H/D Truck **5** 2.4L 145 OHV L4, 3.25" Bore (cont.)

					2.4L 145 OHV L4, 3.25" Bore (co	ont.)
	CRANKSHAFT/OIL PUN	ЛP				
OTY		111	DADTNO	CIZE	DESCRIPTION	
	MAIN BEARINGS		PART NO.		DESCRIPTION W/Single flanged front by	
1	Main Set		FP-4004M		W/Single flanged front brg.	
1 1	Main Set		FP-4004M10		W/Single flanged front brg.	
	Main Set		FP-4004M20		W/Single flanged front brg.	
1	Main Set		FP-4005M		W/Straight shell front brg.	
1	Main Set		FP-4005M10		W/Straight shell front brg.	
1	Main Set		FP-4005M20		W/Straight shell front brg.	
1	Main Set		FP-6632M		W/Straight shell front brg. & thrust washer	
1	Main Set		FP-6632M10		W/Straight shell front brg. & thrust washer	
1	Main Set		FP-6632M20		W/Straight shell front brg. & thrust washer	
1	Main Set		FP-6632M30	30	W/Straight shell front brg. & thrust washer	
1	Main Set		4005M + Std-20		W/Straight shell front brg.; When depleted use FP-4005M	
1	Thrust Washer Set		FP-9811BFA		Position 1; Use w/straight shell main brg. set	
1	Thrust Washer Set		FP-9811BF		Position 1, Use w/Flanged main brg.	
	CYLINDER COMPONEN	ITC				
		113				
	CONNECTING RODS &					
QTY	BRGS.		PART NO.	SIZE	DESCRIPTION	
2	Rod Pair		FP-9320CPA	STD	Position 1-3	
2	Rod Pair		FP-9320CPA10	10	Position 1-3	
2	Rod Pair		FP-9320CPA20	20	Position 1-3	
2	Rod Pair		FP-9320CPA30	30	Position 1-3	
2	Rod Pair		FP-9320CPA40	40	Position 1-3	
2	Rod Pair		FP-9320CP		Position 2-4	
2	Rod Pair		FP-9320CP10	10	Position 2-4	
2	Rod Pair		FP-9320CP20		Position 2-4	
2	Rod Pair		FP-9320CP30		Position 2-4	
2	Rod Pair		FP-9320CP40		Position 2-4	
	11001 411					
			5.5L 335 (5491cd	O Tru	rck E3-175, E3-180, MIDR 06.02.12 Engs. Turbo-Diesel L6, 102mm Bore (RVI Eng.) 1979-93	6
	CRANKSHAFT/OIL PUN	ΛP				
QTY	SEALS - REAR CRANK	YEARS	PART NO.	SIZE	DESCRIPTION	
1	Oil Seal	93-79	325776			
1	Redi-Sleeve	93-79	99435			
	CYLINDED COMPONEN	ITC				
	CYLINDER COMPONEN	V13				
	CONNECTING RODS &					
QTY	BRGS.	YEARS	PART NO.	SIZE	DESCRIPTION	
1	Rod Set	93-79	FP-661890CP			
1	Rod Set	93-79	FP-661890CP25MM			
			H/D Truc	k FN	-510, EN-510A, EN-510B, EN510C Engs.	7
			TI/D Truc	// LI	8.4L 510 OHV L6, 4.4375" Bore 1948-63	1
					0.4L 310 Onv Lo, 4.43/3 Doile 1940-03	
	CYL. HEAD & PARTS					
	1					
	VALVE SPRING	YEARS	PART NO.	SIZE	DESCRIPTION	
12	Spring	63-48	FP-575GC31		Inner; Use w/ or w/o valve stem seal. O.E. No. 575-GC31	
12	Spring	63-48	FP-575GC1100		Outer	
	CYLINDER COMPONEN	NTS				
OTY			DART NO	CIZE	DESCRIPTION	
	PISTON RINGS	YEARS	PART NO.	SIZE	DESCRIPTION	
1	Premium Set	63-48	FP-960KX		1-3/32, 2-1/8, 2-3/16	
1	Premium Set	63-48	960KX + Std Only		1-3/32, 2-1/8, 2-3/16; When depleted use FP-960KX	
					NDL-673, ENDL-673P, ENDS-672 Engs.	8
	CVI HEAD & DADTO				11.0L 672 OHV Diesel L6, 4.875" Bore	
	CYL. HEAD & PARTS					
QTY	VALVE		PART NO.	SIZE	DESCRIPTION	
6	Intake		FP-690GC2187B		w/.293" wide lock grooves	
6	Exhaust		FP-688GC337A		Chrome plated stem; w/.137" wide lock groove; Use	
					w/FP-54GC126 keepers	
24	Keeper		FP-54GC19			
				6175	DESCRIPTION	
	VALVE SEAT		PART NO.	SIZE	DESCRIPTION	
6	Exh.		FP-13GC2247P1	STD		
6	Exh.		FP-13GC2247P10	10		
			(continue)			



8 H/D Truck EN-672, END-672, END-672S, END-673, END-673A, END-673B, END-673C, END-673D, END-673E, END-673P, ENDL-673, ENDL-673P, ENDS-672 Engs. 11.0L 672 OHV Diesel L6, 4.875" Bore

	CYL. HEAD & PARTS (cont.)			
QTY	VALVE SEAT (cont.)	PART NO.	SIZE	DESCRIPTION
6	Exh.	FP-13GC2247P15	15	
6	Exh.	FP-13GC2247P20	20	
6	Exh.	FP-13GC2247P30	30	
	VALVE GUIDE	PART NO.	SIZE	DESCRIPTION
12	Guide	FP-714GB210P4		For .4965" Exh. and all Int.; Semi-Finished
-	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
12 12	Spring	FP-575GC31		Inner; Use w/ or w/o valve stem seal. O.E. No. 575-GC31 Outer
	Spring	FP-575GC1100		
-	VALVE MISC.	PART NO.	SIZE	DESCRIPTION
6	Rotocap	FP-722GC226		
	CAMSHAFT GROUP			
QTY	TIMING	PART NO.	SIZE	DESCRIPTION
1	Dowel Pin	FP-31AX638		Thrust washer locating pin; Knurled
	CAMSHAFT/LIFTER	PART NO.	SIZE	DESCRIPTION
1	Camshaft Thrust Washer	FP-701GC11A		
	COOLING SYSTEM			
QTY	THERMOSTAT	PART NO.	SIZE	DESCRIPTION
1	Oil Seal	FP-447GC216A		Thermostat seal; PTFE Material
	ENGINE BLOCK & PARTS			
QTY	CAM BEARINGS	PART NO.	SIZF	DESCRIPTION
1	Cam Set	FP-1417M		Aux. Drive
1	Cam Set	FP-1476M		Drive shaft thrust washer
1	Cam Set	1476M + Std Only		Drive shaft thrust washer; When depleted use FP-1476M
1	Cam Set	FP-1413M	STD	Engs. w/cyl. block No. 239GB-5320B. Brg. Nos. 2 through 6
1	Cam Set	1413M + Std Only		have a 1/4" dia. hole Engs. w/cyl. block No. 239GB-5320B. Brg. Nos. 2 through 6
'	- Can Cot	. TIOM T Stu Offing		have a 1/4" dia. hole; When depleted use FP-1413M
1	Cam Set	FP-1409M	STD	Engs. From 4/84 w/2.440" dia. shaft Nos. 1-2-3-4-5-6-7.
1	Cam Set	1409M + Std Only		Engs. From 4/84 w/2.440" dia. shaft Nos. 1-2-3-4-5-6-7.; When
1	Cam Set	FP-1274M	CTD	depleted use FP-1409M
1	Cam Set	1274M + Std Only	טוט	Engs. To 4/84 w/1.500" groove on brgs. Nos. 2-3-4-5-6. Engs. To 4/84 w/1.500" groove on brgs. Nos. 2-3-4-5-6.; When
'	Jan Jot	TET THE T SIG OTHY		depleted use FP-1274M
1	Cam Set	FP-1406M	STD	Engs. To 4/84 w/2.00" groove on No. 2 & 5 brgs.
1	Cam Set	1406M + Std Only		Engs. To 4/84 w/2.00" groove on No. 2 & 5 brgs.; When depleted
				use FP-1406M
	CRANKSHAFT/OIL PUMP			
QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Redi-Sleeve	99324		
1	Oil Seal	FP-446GC1115		
	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal	39807		
1	Redi-Sleeve	99599	0:==	DECORIDATION
QTY	MAIN BEARINGS	PART NO.	SIZE	
1	Main Set	FP-6636M	טוט	Late series Engs.; w/1.250" length. inter. brgs.; Incl. thrust washer set.
1	Main Set	FP-6636M10	10	Late series Engs.; w/1.250" length. inter. brgs.; Incl. thrust
				washer set.
1	Main Set	FP-6636M20	20	Late series Engs.; w/1.250" length. inter. brgs.; Incl. thrust
1	Thrust Washer Set	FP-57GC279	STD	washer set. Incl. (2) Thrust Washers, (1) Lock Pin
'		0.002.0	0,0	(=)
	CYLINDER COMPONENTS			
QTY		PART NO.		DESCRIPTION
6	Liner w/o Sealing Rings	FP-509GC284AP1	SID	For use in engines converted to use Maxidyne style flange with coining bead and Maxidyne style gaskets.
6	Liner w/o Sealing Rings	FP-509GC284AP2	2	For use in engines converted to use Maxidyne style flange with
			_	coining bead and Maxidyne style gaskets.
6	Liner w/o Sealing Rings	FP-509GC284AP6	6	For use in engines converted to use Maxidyne style flange with
	Liner w/e Cooling Direct	ED 500000044B40	40	coining bead and Maxidyne style gaskets.
6	Liner w/o Sealing Rings	FP-509GC284AP12	12	For use in engines converted to use Maxidyne style flange with coining bead and Maxidyne style gaskets.
				coming bodd and manaying style gashers.



H/D Truck EN-672, END-672, END-672S, END-673, END-673A, END-673B, END-673C, END-673D, END-673E, END-673P, ENDL-673, ENDL-673P, ENDS-672 Engs. (cont.) 11.0L 672 OHV Diesel L6, 4.875" Bore

	CYLINDER COMPONENTS (cont.)		
QTY 6	LINERS (cont.) Liner w/o Sealing Rings	PART NO. FP-509GC284AP20	SIZE 20	DESCRIPTION For use in engines converted to use Maxidyne style flange with coining bead and Maxidyne style gaskets.
QTY 6 6	PISTONS Pin Bushing Pin Bushing	PART NO. FP-187GB138 FP-1759V	SIZE	DESCRIPTION w/2" pin dia. Con. rod No. 367GC-468F
	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
6	Rod Pair Rod Pair	FP-62GB2393P1 FP-62GB2393P10	STD 10	Engs. From late 1985 Engs. From late 1985
6	Rod Pair Rod Pair	FP-62GB2393P20 FP-62GB2393P30	20 30	Engs. From late 1985 Engs. From late 1985
6	Rod Pair	FP-62GB2382P1	STD	To early 1985
6	Rod Pair Rod Pair	FP-62GB2382P10 FP-62GB2382P20	10 20	To early 1985 To early 1985
6 6	Rod Pair Rod Pair	FP-62GB2382P30 FP-62GB2382P40	30 40	To early 1985 To early 1985

H/D Truck EN-673T, END-673T, ENDT-673, ENDT-673A, ENDT-673B, ENDT-673C, **ENDTF-673 Engs.**

11.0L 672 OHV Turbo-Diesel L6. 4.875" Bore

				11.0L 072 OFF Turbo-Dieser Lo, 4.075 Dore
	CYL. HEAD & PARTS			
QTY 6 6	VALVE Intake Exhaust	PART NO. FP-690GC2193 FP-688GC337A	SIZE	DESCRIPTION w/.137" wide lock grooves Chrome plated stem; w/.137" wide lock groove; Use w/FP-54GC126 keepers
24	Keeper	FP-54GC126		w/.137" wide lock grooves; For 7/16" Stem Dia.
QTY 12	VALVE GUIDE Guide	PART NO. FP-714GB210P4	SIZE	DESCRIPTION Exh. & Int.; .500" I.D. for Int.; Use for Exh. w/.496" stem dia.; Semi-Finished
QTY 12 12	VALVE SPRING Spring Spring	PART NO. FP-575GC31 FP-575GC1100	SIZE	DESCRIPTION Inner Outer
	COOLING SYSTEM			
QTY 1	THERMOSTAT Oil Seal	PART NO. FP-447GC216A	SIZE	DESCRIPTION Thermostat seal; PTFE Material
	ENGINE BLOCK & PARTS			
1 1 1 1	CAM BEARINGS Cam Set Cam Set Cam Set Cam Set Cam Set	PART NO. FP-1417M FP-1476M 1476M + Std Only FP-1406M 1406M + Std Only	STD STD	Aux. drive Drive shaft thrust washer Drive shaft thrust washer; When depleted use FP-1476M Engs. To 4/84 w/2.00" groove on No. 2 & 5 brgs. Engs. To 4/84 w/2.00" groove on No. 2 & 5 brgs.; When depleted use FP-1406M
	CRANKSHAFT/OIL PUMP			
QTY 1 1	SEALS - FRONT CRANK Redi-Sleeve Oil Seal	PART NO. 99324 FP-446GC1115	SIZE	DESCRIPTION
QTY 1 1	SEALS - REAR CRANK Oil Seal Redi-Sleeve	PART NO. 39807 99599	SIZE	DESCRIPTION
QTY 1	MAIN BEARINGS Main Set	PART NO. FP-6636M	STD	DESCRIPTION Late series Engs.; w/1.250" length. inter. brgs.; Incl. thrust washer set; Use w/oil pumps modified for increased pressure
1	Main Set	FP-6636M10	10	Late series Engs.; w/1.250" length. inter. brgs.; Incl. thrust washer set; Use w/oil pumps modified for increased pressure
1	Main Set	FP-6636M20	20	Late series Engs.; w/1.250" length. inter. brgs.; Incl. thrust washer set; Use w/oil pumps modified for increased pressure
	CYLINDER COMPONENTS			
QTY 6	CONNECTING RODS & BRGS. Rod Pair	PART NO. FP-62GB2382P1	SIZE STD	DESCRIPTION



H/D Truck EN-673T, END-673T, ENDT-673, ENDT-673A, ENDT-673B, ENDT-673C, (cont.) ENDTF-673 Engs.

11.0L 672 OHV Turbo-Diesel L6, 4.875" Bore

	CYLINDER COMPONENTS (cont.)				
	CONNECTING RODS &				
QTY	BRGS. (cont.)	PART NO.	SIZE	DESCRIPTION	
6	Rod Pair	FP-62GB2382P10	10	0	
6	Rod Pair	FP-62GB2382P20	20	0	
6	Rod Pair	FP-62GB2382P30	30	0	
6	Rod Pair	FP-62GB2382P40	40	0	

H/D Truck **ENDT-673, ENDT-673A, ENDT-673B, ENDT-673C, ENDTF-673 Engs.** 11.0L 672 OHV Turbo-Diesel L6. 4.875" Bore

	11.0L 672 OHV Turbo-Diesel L6,	4.875" Bore		
	CYL. HEAD & PARTS			
QTY	VALVE	PART NO.	SIZE	DESCRIPTION
6	Intake	FP-690GC2187B		w/.293" wide lock grooves
6	Exhaust	FP-688GC337A		Chrome plated stem; w/.137" wide lock groove; Use
		ED 540040		w/FP-54GC126 keepers
24	Keeper	FP-54GC19		Early style; w/.293" wide lock grooves
24	Keeper	FP-54GC126		Late style; w/.137" wide lock grooves; For 7/16" Stem Dia.
	VALVE SEAT	PART NO.	SIZE	DESCRIPTION
6	Exh.	FP-13GC2247P1	STD	
6	Exh.	FP-13GC2247P10	10	
6	Exh. Exh.	FP-13GC2247P15 FP-13GC2247P20	15 20	
6	Exh.	FP-13GC2247F20	30	
	VALVE GUIDE	PART NO.	SIZE	DESCRIPTION
912	Guide	FP-714GB210P4	SIZL	Exh. & Int.; For .4965" Exh. and all Int.; Semi-Finished
			CIZE	
12	VALVE SPRING Spring	<i>PART NO.</i> FP-575GC31	SIZE	DESCRIPTION Inner; Use w/ or w/o valve stem seal. O.E. No. 575-GC31
12	Spring	FP-575GC31		Outer
	VALVE MISC.		CIZE	DESCRIPTION
QTY 6	Rotocap	<i>PART NO.</i> FP-722GC226	SIZE	DESCRIPTION
		11-72200220		
	CAMSHAFT GROUP			
QTY	TIMING	PART NO.	SIZE	DESCRIPTION
1	Dowel Pin	FP-31AX638		Thrust washer locating pin; Knurled
QTY	CAMSHAFT/LIFTER	PART NO.	SIZE	DESCRIPTION
1	Camshaft Thrust Washer	FP-701GC11A		
	COOLING SYSTEM			
QTY	THERMOSTAT	PART NO.	SIZE	DESCRIPTION
1	Oil Seal	FP-447GC216A		Thermostat seal; PTFE Material
	ENGINE BLOCK & PARTS			
QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Cam Set	FP-1417M	STD	Aux. drive
1	Cam Set	FP-1476M	STD	Drive shaft thrust washer
1	Cam Set	1476M + Std Only		Drive shaft thrust washer; When depleted use FP-1476M
1	Cam Set	FP-1413M	STD	Engs. w/cyl. block No. 239GB-5320B. Brg. Nos. 2 through 6
1	Cam Set	1413M + Std Only		have a 1/4" dia. hole Engs. w/cyl. block No. 239GB-5320B. Brg. Nos. 2 through 6
'		1-71-0111 T Stu Offity		have a 1/4" dia. hole; When depleted use FP-1413M
1	Cam Set	FP-1409M	STD	Engs. From 4/84 w/2.440" dia. shaft Nos. 1-2-3-4-5-6-7.
1	Cam Set	1409M + Std Only		Engs. From 4/84 w/2.440" dia. shaft Nos. 1-2-3-4-5-6-7.; When
			_	depleted use FP-1409M
1	Cam Set	FP-1274M	STD	
1	Cam Set	1274M + Std Only		Engs. To 4/84 w/1.500" groove on brgs. Nos. 2-3-4-5-6.; When depleted use FP-1274M
1	Cam Set	FP-1406M	STD	Engs. To 4/84 w/2.00" groove on No. 2 & 5 brgs.
	Cam Set	1406M + Std Only	טוט	Engs. To 4/84 w/2.00" groove on No. 2 & 5 brgs.: When depleted
'				use FP-1406M
	CRANKSHAFT/OIL PUMP			
QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Redi-Sleeve	99324		
1	Oil Seal	FP-446GC1115		
QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal	39807		
	i.	/aantina		



H/D Truck ENDT-673, ENDT-673A, ENDT-673B, ENDT-673C, ENDTF-673 Engs. 10 11.0L 672 OHV Turbo-Diesel L6, 4.875" Bore (cont.)

	CRANKSHAFT/OIL PUMP (cont.)			
QTY 1	SEALS - REAR CRANK (cont.) Redi-Sleeve	PART NO. 99599	SIZE	DESCRIPTION
QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Main Set	FP-6636M	STD	Late series Engs.; w/1.250" length. inter. brgs.; Incl. thrust washer set.
1	Main Set	FP-6636M10	10	Late series Engs.; w/1.250" length. inter. brgs.; Incl. thrust washer set.
1	Main Set	FP-6636M20	20	Late series Engs.; w/1.250" length. inter. brgs.; Incl. thrust washer set.
	CYLINDER COMPONENTS			
QTY	LINERS	PART NO.	SIZE	DESCRIPTION
6	Liner w/o Sealing Rings	FP-509GC284AP1	STD	coining bead and Maxidyne style gaskets.
6	Liner w/o Sealing Rings	FP-509GC284AP2		For use in engines converted to use Maxidyne style flange with coining bead and Maxidyne style gaskets.
6	Liner w/o Sealing Rings	FP-509GC284AP6	6	For use in engines converted to use Maxidyne style flange with coining bead and Maxidyne style gaskets.
6	Liner w/o Sealing Rings	FP-509GC284AP12	12	For use in engines converted to use Maxidyne style flange with coining bead and Maxidyne style gaskets.
6	Liner w/o Sealing Rings	FP-509GC284AP20	20	For use in engines converted to use Maxidyne style flange with coining bead and Maxidyne style gaskets.
	CONNECTING RODS &			
QTY	BRGS.	PART NO.	SIZE	DESCRIPTION
6	Rod Pair	FP-62GB2393P1	STD	Engs. From late 1985
6	Rod Pair	FP-62GB2393P10	10	3
6	Rod Pair	FP-62GB2393P20	20	Engs. From late 1985
6	Rod Pair Rod Pair	FP-62GB2393P30	30 CTD	Engs. From late 1985
6	Rod Pair Rod Pair	FP-62GB2382P1 FP-62GB2382P10	STD 10	To early 1985 To early 1985
6	Rod Pair	FP-62GB2382P20	20	To early 1985
6	Rod Pair	FP-62GB2382P30	30	To early 1985
6	Rod Pair	FP-62GB2382P40	40	To early 1985
QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
6	Ring Set Single Cylinder	FP-353GC2139	STD	Check piston grooving before using ring set
1	Premium Set	FP-353GC2139S	STD	Check piston grooving before using ring set

H/D Truck E6-315, E6-315(R), E6-350, E6-350(R), EM6-250, EM6-275(R), EM6-285, EM6-285(R), EM6-300(R), EME6-285(R), ENDTB-675, ENDTB-676, ENDTB-676A, ENDTB-676B, ET-673, ET-673E, ETAB-673A, ETAB-676, ETAB-676B, ETAY(B)-676, ETAZ(B)-673, ETAZ(B)-673A, ETAZ(B)-673B, ETSZ(B)-673A, ETSZ(B)-676, ETSZ(B)-676A, ETSZ(B)-677 Engs. (2-Valve Cyl. Head) 11.0L 672 OHV Turbo-Diesel L6, 4.875" Bore

	CYL. HEAD & PARTS			
	GASKETS	PART NO.	SIZE	DESCRIPTION
2	Valve Cover Gasket Head Gasket	FP-554GB38A FP-57GC189		w/Fire Rings for 20 Stud Head
2	Head Gasket	FP-553GB3267C		For 18 Stud Head only
20	Stud	FP-610GC1123		Cyl. Head Stud; For 20 Stud Head only
1	Washer	FP-56AX465		Valve cover; Quantity A/R
ОТҮ	VALVE	PART NO.	SIZE	DESCRIPTION
6	Intake	FP-690GC2187B		Early style valve train; w/.293" wide lock grooves
6	Intake	FP-690GC2193		Late style; w/.137" wide lock grooves
6	Exhaust	FP-688GC337A		Chrome plated stem; w/.137" wide lock groove; Use w/FP-54GC126 keepers
24	Keeper	FP-54GC19		Early style; w/.293" wide lock grooves, O.E. No. 54GC-19
24	Keeper	FP-54GC126		Late style; w/.137" wide lock grooves; O.E. No. 54GC-126; For 7/16" Stem Dia.
QTY	VALVE SEAT	PART NO.	SIZE	DESCRIPTION
6	Exh.	FP-13GC2247P1	STD	
6	Exh.	FP-13GC2247P10	10	
6	Exh.	FP-13GC2247P15	15	
6	Exh.	FP-13GC2247P20	20	
6	Exh.	FP-13GC2247P30	30	
6	Int.	FP-13GC2237P1	STD	
6	Int.	FP-13GC2234P10	10	
6	Int.	FP-13GC2234P15	15	



11 H/D Truck E6-315, E6-315(R), E6-350, E6-350(R), EM6-250, EM6-275(R), EM6-285, (cont.) EM6-285(R), EM6-300(R), EME6-285(R), ENDTB-675, ENDTB-676, ENDTB-676A, ENDTB-676B, ET-673, ET-673E, ETAB-673A, ETAB-676, ETAB-676B, ETAY(B)-676, ETAZ(B)-673, ETAZ(B)-673A, ETAZ(B)-673B, ETSZ(B)-673A, ETSZ(B)-676, ETSZ(B)-676A, ETSZ(B)-677 Engs. (2-Valve Cyl. Head)

11.0L 672 OHV Turbo-Diesel L6. 4.875" Bore

	11.0L 672 OHV Turbo-Diesel L6, 4.875" Bore					
	CYL. HEAD & PARTS (cont.)					
QTY 6	VALVE SEAT (cont.) Int.	PART NO. FP-13GC2234P30	SIZE 30	DESCRIPTION		
	VALVE GUIDE	PART NO.	SIZE			
12 12	Guide Guide	FP-714GB210P2 FP-714GB210P4		Exh. & Int.; Finished Exh. & Int.; Semi-Finished		
	VALVE SPRING	PART NO.	SIZE	DESCRIPTION		
12	Spring	FP-575GC31	·	Inner; Use w/ or w/o valve stem seal. O.E. No. 575-GC31. O.E. No. 575GC-31		
12	Spring	FP-575GC1100		Outer; Use w/rotocap		
QTY 6	VALVE MISC. Rotocap	<i>PART NO.</i> FP-722GC226	SIZE	DESCRIPTION Rotocap only		
	VALVE SEAL	PART NO.	SIZE			
12	Valve Stem Seal INT & EXH MANIFOLDS	FP-446GC279		Use w/FP-575GC31 Valve Spring		
	INT. & EXH. MANIFOLDS	PART NO.	SIZE	DESCRIPTION		
6	Intake Manifold Gasket	FP-573GB135	SIZL	w/Stamped manifold		
1	Intake Manifold Gasket	FP-590GB312B		One-piece manifold; One-piece		
	CAMSHAFT GROUP					
	TIMING	PART NO.	SIZE			
1 1	Dowel Pin Dowel Pin	FP-31AX638 FP-32AX65		Thrust washer locating pin; Knurled Thrust washer locating pin; Plain		
	TIMING COVER	PART NO.	SIZE	DESCRIPTION		
1	Timing Cover Gasket	FP-548GB41D				
	CAMSHAFT/LIFTER	PART NO.	SIZE			
1 1	Camshaft Camshaft Thrust Washer	FP-454GC4160P1 FP-701GC11A		w/o Dynatard eng. brake		
1	Prelube	55-400		4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.		
	FUEL SYSTEM & PARTS					
QTY	FUEL INJECTION	PART NO.	SIZE			
1	Injector Pump Gasket Injector Pump Gasket	FP-590GB1111 FP-590GB190D		Pump adapter Pump adapter; 3-Hole		
6	Fuel Injector Sleeve	FP-12GC129P1		Tump adapter, 5-Hole		
1	O-Ring	FP-56AX456		Injection pump		
	FUEL FILTERS & PUMP	PART NO.	SIZE	DESCRIPTION		
1 1	O-Ring O-Ring	FP-446GC1149 FP-590GB1327P1		Dynatard Solenoid Dynatard Solenoid		
1	Fuel Pump Mounting Gasket	FP-562GB33		F.I. Pump		
	TURBOCHARGER	PART NO.	SIZE	DESCRIPTION		
1 1	Turbocharger Oil Drain Gasket O-Ring	FP-590GB2109 FP-446GC1225		Turbo oil inlet tube		
1	Turbocharger/Manifold Gasket	FP-590GB1189A		To Exh. manifold; Single port		
	GOVERNOR					
	GOVERNOR Covernor Cooket	PART NO.	SIZE			
1	Governor Gasket	FP-590GB191C		Gover. switch mounting		
OTV	COOLING SYSTEM WATER PUMP	DARTNO	CIZE	DESCRIPTION		
QIY 1	WATER PUMP Water Pump - Heavy Duty	<i>PART NO.</i> FP-316GC1210A	SIZE	DESCRIPTION EM6 Engs. only; 2-Belt pulley		
1	Water Pump - Heavy Duty	FP-316GC1184		675/676 Engs.; 3-Belt pulley, long shaft, long housing, cast impeller		
1	Water Pump - Heavy Duty	FP-316GC1211A		675/676 Engs.; 3-Belt pulley, long shaft, long housing, stamped impeller		
1	Water Pump Mech. Shaft Seal Water Pump Gasket Kit	FP-447GC218 FP-57GC182				
	THERMOSTAT	PART NO.	SIZE			
	Thermostat	FP-657GC324AP60		160 Deg.		
1		FP-657GC324AP70		170 Dea.		
1 1 1	Thermostat Thermostat	FP-657GC324AP70 FP-657GC324AP80		170 Deg. 180 Deg.		



H/D Truck E6-315, E6-315(R), E6-350, E6-350(R), EM6-250, EM6-275(R), EM6-285, 11 EM6-285(R), EM6-300(R), EME6-285(R), ENDTB-675, ENDTB-676, ENDTB-676A, (cont.) ENDTB-676B, ET-673, ET-673E, ETAB-673A, ETAB-676, ETAB-676B, ETAY(B)-673, ETAZ(B)-673A, ETAZ(B)-673B, ETSZ(B)-673A, ETSZ(B)-676, ETSZ(B)-676A, ETSZ(B)-677 Engs. (2-Valve Cyl. Head)

11.0L 672 OHV Turbo-Diesel L6, 4.875" Boré

				11.0L 6/2 OHV Turbo-Diesel L6, 4.8/5" Bore
	COOLING SYSTEM (cont.)			
QTY 1 1 1 1 4 1	THERMOSTAT (cont.) Thermostat Kit Thermostat Kit Thermostat Kit Thermostat Gasket Water Outlet Gasket Oil Seal	PART NO. FP-215SB165B FP-215SB165AP2 FP-215SB165BP3 FP-590GB1334 FP-557GB118 FP-447GC216A	SIZE	DESCRIPTION 160 Deg.; Incl. seal & gasket 170 Deg.; Incl. seal & gasket 180 Deg.; Incl. seal & gasket Water outlet manifold Thermostat seal; PTFE Material
	MISCELLANEOUS O-Ring	PART NO. FP-56AX393	SIZE	•
	ENGINE BLOCK & PARTS			- Cooking Cook
QTY 1	GASKETS Oil Pan Gasket	PART NO. FP-579GB41C	SIZE	DESCRIPTION
QTY	GASKET SETS In-Frame Gasket Set In-Frame Gasket Set Complete Overhaul Gasket Set Complete Overhaul Gasket Set	PART NO. FP-PGM183AIF PGM183A-IF + FP-PGM183AOH PGM183A-OH +	SIZE	DESCRIPTION When depleted use FP-PGM183AIF When depleted use FP-PGM183AOH
	CAM BEARINGS Cam Set Cam Brg.	PART NO. FP-57GC266 FP-61GB14C FP-59GB188CP1 FP-59GB1109BP1 FP-59GB122B FP-61GB15C	STD STD	DESCRIPTION Position Front; Aux. Shaft Position No. 1 Position No. 2-3-4-5-6 Position No. 7 Position Rear; Aux. Shaft
QTY 1	ENGINE BEARING MISC. Aux. Shaft Set	PART NO. FP-57GC267	SIZE	DESCRIPTION Incl. cam thrust washer, pin, front & rear bearings
QTY 1 2	OIL COOLERS & FILTERS Oil Cooler Gasket Oil Cooler Water Gasket	PART NO. FP-549GB28AP4 FP-549GB28P1	SIZE	DESCRIPTION Oil cooler to core Oil cooler to water outlet
1 1 1 1	MISCELLANEOUS Oil Filler Cap	PART NO. FP-222GB213 FP-222GB135A FP-222GB214 FP-222GB27A	SIZE	DESCRIPTION 1 3/8", Current style 1 3/8", Old style 2", w/chain 2", w/o chain
	CRANKSHAFT/OIL PUMP			
QTY 1 1	CRANKSHAFT Crankshaft Crankshaft & Bearing Kit	PART NO. FP-456GC5113P1 FP-456GC2125	SIZE	DESCRIPTION Crankshaft only Incl. Std. crankshaft, rod brgs & main brgs.
QTY 1 1 1 1	SEALS - FRONT CRANK Oil Seal Oil Seal Redi-Sleeve Oil Seal	PART NO. FP-446GC181 FP-446GC316 99324 FP-446GC1115	SIZE	DESCRIPTION 4 1/4" O.D.; Neoprene 4" O.D.; Neoprene
QTY 1 1 1 1	SEALS - REAR CRANK Oil Seal Oil Seal Oil Seal Kit Redi-Sleeve	PART NO. FP-446GC238A 39807 FP-57GC186B 99599	SIZE	DESCRIPTION Neoprene; Incl. Seal & Wear Sleeve
QTY 1 1 1 2 4 2	MAIN BEARINGS Main Set Main Set Main Set Thrust Washer Set Thrust Washer Thrust Washer Thrust Washer Thrust Washer Lock Pin	PART NO. FP-215SB72DP1 FP-215SB72DP2 FP-215SB72DP3 FP-57GC279 FP-714GC211AP1 FP-183GC23	SIZE STD 10 20 STD STD	Incl. thrust washers & lock pins
QTY 1 1 1	OIL PUMP Oil Pump Inlet Pipe Gasket O-Ring O-Ring	PART NO. FP-591GB11C FP-56AX470 FP-446GC1161	SIZE	DESCRIPTION Oil pickup tube to housing cover Oil Filter mounting seal



11 H/D Truck E6-315, E6-315(R), E6-350, E6-350(R), EM6-250, EM6-275(R), EM6-285, (cont.) EM6-285(R), EM6-300(R), EME6-285(R), ENDTB-675, ENDTB-676, ENDTB-676A, ENDTB-676B, ET-673, ET-673E, ETAB-673A, ETAB-676, ETAB-676B, ETAY(B)-676, ETAZ(B)-673, ETAZ(B)-673A, ETAZ(B)-673B, ETSZ(B)-673A, ETSZ(B)-676, ETSZ(B)-676A, ETSZ(B)-677 Engs. (2-Valve Cyl. Head)

11.0L 672 OHV Turbo	-Diesei L6	, 4.8/5"	Bore
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	11.0E 072 011V 10100-Dieset E0, 4.075 Doie					
	CRANKSHAFT/OIL PUMP (cont.)					
QTY	OIL PUMP (cont.) Oil Pump Cover Gasket Oil Filter Pad Cover Gasket Oil Press Control Housing Gsk Pressure Relief Housing Pressure Relief Housing Oil Filler Spout Gasket	PART NO. FP-590GB1243B FP-590GB1152B FP-590GB1267B FP-590GB1109B FP-590GB1266 FP-56AX447	SIZE	DESCRIPTION Flange plate to housing cover Oil pressure control		
1	Oil Fitting Gasket	FP-590GB1309		Oil filter mounting		
	CYLINDER COMPONENTS					
QTY 6 6 6 6	LINERS Liner w/o Sealing Rings	PART NO. FP-509GC284AP1 FP-509GC284AP2 FP-509GC284AP6 FP-509GC284AP12	SIZE <i>STD</i> 2 6 12	DESCRIPTION		
6	Liner w/o Sealing Rings	FP-509GC284AP20	20			
6	Cylinder Kit Complete Cylinder Kit Complete	FP-57GC376 FP-57GC376P2	STD 2	ETSZ(B)-673A, ETSZ(B)-676, ETSZ(B)-676A, ETSZ(B) -677, EM6-250, EM6-275(R), EM6-285(R), EM6-285(R), EM6-285, EM6-300(R), E6-315, E6-315(R), E6-350, E6-350(R) Engs. w/2 valve heads. ETSZ(B)-673A, ETSZ(B)-676, ETSZ(B)-676A, ETSZ(B) -677, EM6-250, EM6-275(R), EM6-285(R), EM6-285(R), EM6-285,		
6	Cylinder Kit Complete	FP-57GC376P6	6	EM6-300(R), E6-315, E6-315(R), E6-350, E6-350(R) Engs. w/2 valve heads. ETSZ(B)-673A, ETSZ(B)-676, ETSZ(B)-676A, ETSZ(B) -677, EM6-250, EM6-275(R), EM6-285(R), EM6-285(R), EM 6-285, EM6-300(R), E6-315, E6-315(R), E6-350, E6-350(R) Engs. w/2		
6	Cylinder Kit Complete	FP-57GC376P12	12	valve heads. ETSZ(B)-673A, ETSZ(B)-676, ETSZ(B)-676A, ETSZ(B) -677, EM6-250, EM6-275(R), EM6-285(R), EME6-285(R), EM6-285, EM6-300(R), E6-315, E6-315(R), E6-350, E6-350(R) Engs. w/2 valve heads.		
6	Cylinder Kit Complete	FP-57GC376P20	20			
QTY 6 6 6	PISTONS Piston Body w/o Pin Piston Kit w/Pin & Retainers Cast Piston	PART NO. FP-240GC542C FP-57GC283A FP-2644PN +		DESCRIPTION 15.0:1 C.R. 15.0:1 C.R. ETSZ(B)-673A, ETSZ(B)-676, ETSZ(B)-676A, ETSZ(B)-677, EM6-250, EM6-275(R), EM6-285(R), EM6-285(R), EM6-285, EM6-300(R), E6-315, E6-315(R), E6-350, E6-350(R) Engs. w/2 valve heads.; Cast; 3-1/8", 1-3/16" Ring Groove, 3.698" CD, 2.0000" Pin Dia., Cup Head On Center .750" deep x 3.360" dia. w/2 valve reliefs - 15.1:1 C.R.; Repl. O.E. Nos. 240GC-552, 240GC-555, 240GC-2238 & 57GC283A; When depleted use FP-57GC283A		
6 12 6	Pin Piston Pin Retainer Pin Bushing	FP-182GC1356P3 FP-97AX124 FP-187GB138		6. 66256		
	CONNECTING RODS & BRGS. Rod Pair Rod Pair Rod Pair Rod Pair Rod Pair	PART NO. FP-62GB2382P1 FP-62GB2382P10 FP-62GB2382P20 FP-62GB2382P30	SIZE <i>STD</i> 10 20 30	DESCRIPTION		
QTY 6	PISTON RINGS Ring Set Single Cylinder	PART NO. FP-353GC2139	SIZE STD	DESCRIPTION Check piston grooving before supplying ring set; Check piston		
1	Premium Set	FP-353GC2139S	STD	grooving before using ring set		
<u> </u>		(continued		<u> </u>		



H/D Truck E6-315, E6-315(R), E6-350, E6-350(R), EM6-250, EM6-275(R), EM6-285, 11 EM6-285(R), EM6-300(R), EME6-285(R), ENDTB-675, ENDTB-676, ENDTB-676A, (cont.) ENDTB-676B, ET-673, ET-673E, ETAB-673A, ETAB-676, ETAB-676B, ETAY(B)-673, ETAZ(B)-673A, ETAZ(B)-673B, ETSZ(B)-673A, ETSZ(B)-676, ETSZ(B)-676A, ETSZ(B)-677 Engs. (2-Valve Cyl. Head) 11.0L 672 OHV Turbo-Diesel L6, 4.875" Bore

	KITS			
QTY	OVERHAUL KIT	PART NO.	SIZE	DESCRIPTION
1	In-Frame Overhaul Kit	FP-IFK542C		ENDT-673C, ENDT(B)-676(A)(B), ENDT(B)(F)-673C, ENDT(B)-675, ET-673E, ET-673, ETAZ(B)-673(A)(B), ETA(B)-673A, ETA(B)-676(B) & ETAY(B)-676 Engs.
1	In-Frame Overhaul Kit	FP-IFK542C		ETSZ(B)-673A, ETSZ(B)-676, ETSZ(B)-676A, ETSZ(B)-677, EM6-250, EM6-275(R), EME6-285(R), EM6-285, EM6-300(R), E6-315, E6-315(R), E6-350 & E6-350(R) Engs. w/2 valve heads
1	Complete Overhaul Kit	FP-IFK542COH		ENDT-673C, ENDT(B)-676(A)(B), ENDT(B)(F)-673C, ENDT(B)-675, ET-673E, ET-673, ETAZ(B)-673(A)(B), ETA(B)-673A, ETA(B)-676(B) & ETAY(B)-676 Engs.
1	Complete Overhaul Kit	FP-IFK542COH		ETSZ(B)-673A, ETSZ(B)-676, ETSZ(B)-676A, ETSZ(B)-677, EM6-250, EM6-275(R), EME6-285(R), EM6-285, EM6-300(R), E6-315, E6-315(R), E6-350 & E6-350(R) Engs. w/2 valve heads

H/D Truck E6-200, EC6-235, EC6-330, EM6-237(R), EMC6-250, EMC6-285, EMC6-285(R), ENDT(B) -675C, ETSX-675, ETSX-676, ETSX-677, ETX(B)-673D, ETY(B)-673E, ETY(B)-675, ETZ(B)-675, ETZ(B)-675B, ETZB(F)-673E Engs. (2-Valve Cyl. Head)

11.0L 672 OHV Turbo-Diesel L6, 4.875" Boré

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	CYL. HEAD & PARTS			
QTY	VALVE	PART NO.	SIZE	DESCRIPTION
6	Intake	FP-690GC2187B		Early style valve train; ETY673E, ETZ673C, ETY675, ETZ675 & ETSZ676 only.; w/.293" wide lock grooves
6	Intake	FP-690GC2193		Late style; ETY673E, ETZ673C, ETY675, ETZ675 & ETSZ676; w/.137" wide lock grooves
6	Exhaust	FP-688GC337A		ETY673E, ETZ673C, ETY675, ETZ675 & ETSZ676; Chrome plated stem; w/.137" wide lock groove; Use w/FP-54GC126 keepers
24	Keeper	FP-54GC19		Early style; w/.293" wide lock grooves, O.E. No. 54GC-19, ETZ673C, ETY675, ETZ675 & ETSZ676
24	Keeper	FP-54GC126		Late style; w/.137" wide lock grooves; O.E. No. 54GC-126 ETY673E, ETZ673C, ETY675, ETZ675, ETSZ676; For 7/16" Stem Dia.
QTY	VALVE SEAT	PART NO.	SIZE	DESCRIPTION
6	Exh.	FP-13GC2247P1	STD	ETY673E, ETZ673C, ETY675, ETZ675 & ETSZ676 only
6	Exh.	FP-13GC2247P10		ETY673E, ETZ673C, ETY675, ETZ675 & ETSZ676 only
6	Exh.	FP-13GC2247P15	15	ETY673E, ETZ673C, ETY675, ETZ675 & ETSZ676 only
6	Exh.	FP-13GC2247P20	20	ETY673E, ETZ673C, ETY675, ETZ675 & ETSZ676 only
6	Exh.	FP-13GC2247P30	30	ETY673E, ETZ673C, ETY675, ETZ675 & ETSZ676 only
QTY	VALVE GUIDE	PART NO.	SIZE	DESCRIPTION
12	Guide	FP-714GB210P4		Exh. & Int.; Semi-Finished
QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
12	Spring	FP-575GC31		Inner; Use w/ or w/o valve stem seal. O.E. No. 575-GC31. O.E. No. 575GC-31
12	Spring	FP-575GC1100		Outer; Use w/rotocap
QTY	VALVE MISC.	PART NO.	SIZE	DESCRIPTION
6	Rotocap	FP-722GC226		Rotocap only
	COOLING SYSTEM			
QTY	THERMOSTAT	PART NO.	SIZE	DESCRIPTION
1	Oil Seal	FP-447GC216A		Thermostat seal; PTFE Material
	ENGINE BLOCK & PARTS			
QTY	GASKET SETS	PART NO.	SIZE	DESCRIPTION
1	In-Frame Gasket Set	FP-PGM183AIF		
1	In-Frame Gasket Set	PGM183A-IF +		When depleted use FP-PGM183AIF
1	Complete Overhaul Gasket Set	FP-PGM183AOH		
1	Complete Overhaul Gasket Set	PGM183A-OH +		When depleted use FP-PGM183AOH
1	Kit Gasket Set	260-1078		In Frm.; NA & turbo, 673, 675, & 676 series 2-valve Engs.; Incl. valve stem seals & 20-bolt head gskt. for use w/Maxidyne-style sleeves



12 H/D Truck E6-200, EC6-235, EC6-330, EM6-237(R), EMC6-250, EMC6-285, EMC6-285(R), (cont.) ENDT(B) -675C, ETSX-675, ETSX-676, ETSX-677, ETX(B)-673D, ETY(B)-673E, ETY(B)-675, ETY(B)-675B, ETZ(B)-675, ETZ(B)-675B, ETZB(F)-673E Engs. (2-Valve Cyl. Head)

11.0L 672 OHV Turbo-Diesel L6, 4.875" Bore

	CRANKSHAFT/OIL PUMP			
QTY 1 1	SEALS - FRONT CRANK Redi-Sleeve Oil Seal	PART NO. 99324 FP-446GC1115	SIZE	DESCRIPTION
QTY 1 1	SEALS - REAR CRANK Oil Seal Redi-Sleeve	PART NO. 39807 99599	SIZE	DESCRIPTION
	CYLINDER COMPONENTS			
QTY 6 6 6 6 6 6	LINERS Liner w/o Sealing Rings Cylinder Kit Complete Cylinder Kit Complete	PART NO. FP-509GC284AP1 FP-509GC284AP2 FP-509GC284AP6 FP-509GC284AP12 FP-509GC284AP20 FP-57GC355B	SIZE STD 2 6 12 20 STD	ETZ(B)-675, ETZ(B)-675B, ETY(B)-675B, ETX(B)-673D, EC6-235, EM6-237, ETSX-675, ETSX-676, EMC6-285R, EMC6-250, ETSX-677, EC6-330 & EMC6-285 Engs. ETZ(B)-675, ETZ(B)-675B, ETY(B)-675B, ETX(B)-673D, EC6-235, EM6-237, ETSX-675, ETSX-676, EMC6-285R, EMC6-250, ETSX-677, EC6-330 & EMC6-285 Engs.
	KITS			
QTY 1 1	OVERHAUL KIT In-Frame Overhaul Kit Complete Overhaul Kit	PART NO. FP-IFK545D FP-IFK545DOH	SIZE	DESCRIPTION

13 H/D Truck E6-315, E6-315(R), E6-350, E6-350(R), EM6-250, EM6-275(R), EM6-285, EM6-285(R), EM6-300(R), EME6-285(R), ETSZ(B)-673A, ETSZ(B)-676, ETSZ(B)-676A, ETSZ(B)-677 Engs. (4-Valve Cyl. Head)

11.0L 672 OHV Turbo-Diesel L6, 4.875 Bore

	CYL. HEAD & PARTS					
QTY	GASKETS	PART NO.	SIZE	DESCRIPTION		
1	Valve Cover Gasket	FP-554GB115		Silicone rubber, Exc. Joined Ends		
2	Head Gasket	FP-57GC189		w/Fire Rings		
1	Head Set	FP-126SB187		Head gaskets not incl.		
1	Head Set	FP-PGM187		Incl. head gaskets		
1	Washer	FP-56AX465		Valve cover; Quantity A/R		
	VALVE	PART NO.	SIZE			
12	Intake	FP-690GC2210		3/8" Valve Stem, 30 Degree Face		
12	Intake	FP-690GC2200		7/16" Stem Dia.		
12	Exhaust	FP-688GC2378		3/8" Valve Stem		
12	Exhaust	FP-688GC2373		7/16" Valve Stem		
48	Keeper	FP-54GC126		w/.137" wide lock grooves; For 7/16" Stem Dia.		
48	Keeper	FP-54GC25		For 3/8" Stem Dia.		
	VALVE SEAT	PART NO.	SIZE	DESCRIPTION		
12	Exh.	FP-13GC2264P5	5			
12	Exh.	FP-13GC2264P15	15			
12	Exh.	FP-13GC2264P31	31			
12	Int.	FP-13GC2251P5	5			
12	Int.	FP-13GC2251P15	15			
12	Int.	FP-13GC2251P31	31			
QTY	VALVE GUIDE	PART NO.	SIZE	DESCRIPTION		
12	Guide	FP-714GB222P2		For 3/8" stem dia.		
12	Guide	FP-714GB217P2		For 7/16" valve stem dia., Pre-Reamed		
QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION		
24	Spring	FP-575GC213		Exh. & Int.		
QTY	VALVE MISC.	PART NO.	SIZE	DESCRIPTION		
24	Rotocap	FP-722GC235		Exh. & Int.		
-	VALVE SEAL	PART NO.	SIZE	DESCRIPTION		
24	Valve Stem Seal	FP-446GC328		For 3/8" Stem Dia.		
24	Valve Stem Seal	FP-446GC138B		Rocker shaft support bracket; O-Ring; For 7/16" Stem Dia.		
	(continued on next page)					



H/D Truck E6-315, E6-315(R), E6-350, E6-350(R), EM6-250, EM6-275(R), EM6-285, 13 EM6-285(R), EM6-300(R), EME6-285(R), ETSZ(B)-673A, ETSZ(B)-676, ETSZ(B)-676A, (cont.) ETSZ(B)-677 Engs. (4-Valve Cyl. Head) 11.0L 672 OHV Turbo-Diesel L6, 4.875" Bore

	INT & EXH MANIFOLDS			
QTY	INT. & EXH. MANIFOLDS	PART NO.	SIZE	DESCRIPTION
6	Intake Manifold Gasket Intake Manifold Gasket	FP-573GB135 FP-590GB312B		w/Stamped manifold One-piece manifold; One-piece
!	CAMSHAFT GROUP	11-330003120		One-piece mailiou, One-piece
OTV	TIMING COVER	PART NO.	SIZE	DESCRIPTION
1	Timing Cover Gasket	FP-548GB41D	SIZE	DESCRIPTION
QTY	CAMSHAFT/LIFTER	PART NO.	SIZE	DESCRIPTION
1	Camshaft Thrust Washer Dowel Pin	FP-701GC11A FP-31AX638		Bal. Shaft & Camshaft Thrust washer locating pin- Knurled; Knurled
1	Dowel Pin	FP-32AX65		Thrust washer locating pin- Idianed, Idianed Thrust washer locating pin- Plain; Plain
1	Prelube	55-400		4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
	FUEL SYSTEM & PARTS			
QTY	FUEL INJECTION Injector Pump Gasket	PART NO. FP-590GB1111	SIZE	DESCRIPTION Pump adapter
1	Injector Pump Gasket	FP-590GB1111		Pump adapter; 3-Hole
6	Fuel Injector Sleeve	FP-12GC129P1		Indication muses
1 OTV	O-Ring FUEL FILTERS & PUMP	FP-56AX456 PART NO.	CIZE	Injection pump DESCRIPTION
1	O-Ring	FP-446GC1149	SIZE	Dynatard Solenoid
1	O-Ring	FP-590GB1327P1		Dynatard Solenoid
1 OTV	Fuel Pump Mounting Gasket TURBOCHARGER	FP-562GB33 PART NO.	SIZE	F.I. Pump DESCRIPTION
1	Turbocharger Oil Drain Gasket	FP-590GB2109	SIZE	DESCRIPTION
1	O-Ring	FP-446GC1225		Turbo oil inlet tube
1	Turbocharger/Manifold Gasket	FP-590GB1189A		To Exh. manifold; Single port
OTV	GOVERNOR	DADTAIO	CIZE	DESCRIPTION
1	GOVERNOR Governor Gasket	PART NO. FP-590GB191C	SIZE	DESCRIPTION Gover. switch mounting
	COOLING SYSTEM			
1 '	WATER PUMP	PART NO.	SIZE	
QTY 1 1	WATER PUMP Water Pump - Heavy Duty	PART NO. FP-316GC1210A FP-316GC1184	SIZE	EM6 Engs. only; 2-Belt pulley
1	WATER PUMP	FP-316GC1210A	SIZE	EM6 Engs. only; 2-Belt pulley 675/676 Engs.; 3-Belt pulley, long shaft, long housing, cast impeller 675/676 Engs.; 3-Belt pulley, long shaft, long housing, stamped
1 1 1 1	WATER PUMP Water Pump - Heavy Duty Water Pump - Heavy Duty Water Pump - Heavy Duty Water Pump Mech. Shaft Seal	FP-316GC1210A FP-316GC1184 FP-316GC1211A FP-447GC218	SIZE	EM6 Engs. only; 2-Belt pulley 675/676 Engs.; 3-Belt pulley, long shaft, long housing, cast impeller
1 1 1 1	WATER PUMP Water Pump - Heavy Duty Water Pump - Heavy Duty Water Pump - Heavy Duty Water Pump Mech. Shaft Seal Water Pump Gasket Kit	FP-316GC1210A FP-316GC1184 FP-316GC1211A FP-447GC218 FP-57GC182		EM6 Engs. only; 2-Belt pulley 675/676 Engs.; 3-Belt pulley, long shaft, long housing, cast impeller 675/676 Engs.; 3-Belt pulley, long shaft, long housing, stamped impeller
1 1 1 1	WATER PUMP Water Pump - Heavy Duty Water Pump - Heavy Duty Water Pump - Heavy Duty Water Pump Mech. Shaft Seal	FP-316GC1210A FP-316GC1184 FP-316GC1211A FP-447GC218	SIZE	EM6 Engs. only; 2-Belt pulley 675/676 Engs.; 3-Belt pulley, long shaft, long housing, cast impeller 675/676 Engs.; 3-Belt pulley, long shaft, long housing, stamped impeller
1 1 1 1 QTY 1 1	WATER PUMP Water Pump - Heavy Duty Water Pump - Heavy Duty Water Pump - Heavy Duty Water Pump Mech. Shaft Seal Water Pump Gasket Kit THERMOSTAT Thermostat Thermostat	FP-316GC1210A FP-316GC1184 FP-316GC1211A FP-447GC218 FP-57GC182 PART NO. FP-657GC324AP60 FP-657GC324AP70		EM6 Engs. only; 2-Belt pulley 675/676 Engs.; 3-Belt pulley, long shaft, long housing, cast impeller 675/676 Engs.; 3-Belt pulley, long shaft, long housing, stamped impeller DESCRIPTION 160 Deg. 170 Deg.
1 1 1 1 QTY 1	WATER PUMP Water Pump - Heavy Duty Water Pump - Heavy Duty Water Pump - Heavy Duty Water Pump Mech. Shaft Seal Water Pump Gasket Kit THERMOSTAT Thermostat Thermostat Thermostat Thermostat	FP-316GC1210A FP-316GC1184 FP-316GC1211A FP-447GC218 FP-57GC182 PART NO. FP-657GC324AP60 FP-657GC324AP70 FP-657GC324AP80		EM6 Engs. only; 2-Belt pulley 675/676 Engs.; 3-Belt pulley, long shaft, long housing, cast impeller 675/676 Engs.; 3-Belt pulley, long shaft, long housing, stamped impeller DESCRIPTION 160 Deg. 170 Deg. 180 Deg.
1 1 1 1 QTY 1 1 1 1	WATER PUMP Water Pump - Heavy Duty Water Pump - Heavy Duty Water Pump - Heavy Duty Water Pump Mech. Shaft Seal Water Pump Gasket Kit THERMOSTAT Thermostat Thermostat Thermostat Thermostat Thermostat Kit Thermostat Kit	FP-316GC1210A FP-316GC1184 FP-316GC1211A FP-447GC218 FP-57GC182 PART NO. FP-657GC324AP60 FP-657GC324AP70 FP-657GC324AP80 FP-215SB165B FP-215SB165AP2		EM6 Engs. only; 2-Belt pulley 675/676 Engs.; 3-Belt pulley, long shaft, long housing, cast impeller 675/676 Engs.; 3-Belt pulley, long shaft, long housing, stamped impeller DESCRIPTION 160 Deg. 170 Deg. 180 Deg. 160 Deg.; Incl. seal & gasket 170 Deg.; Incl. seal & gasket
1 1 1 1 QTY 1 1 1 1 1	WATER PUMP Water Pump - Heavy Duty Water Pump - Heavy Duty Water Pump - Heavy Duty Water Pump Mech. Shaft Seal Water Pump Gasket Kit THERMOSTAT Thermostat Thermostat Thermostat Thermostat Thermostat Kit Thermostat Kit Thermostat Kit Thermostat Kit	FP-316GC1210A FP-316GC1184 FP-316GC1211A FP-447GC218 FP-57GC182 PART NO. FP-657GC324AP60 FP-657GC324AP70 FP-657GC324AP80 FP-215SB165B FP-215SB165BP3		EM6 Engs. only; 2-Belt pulley 675/676 Engs.; 3-Belt pulley, long shaft, long housing, cast impeller 675/676 Engs.; 3-Belt pulley, long shaft, long housing, stamped impeller DESCRIPTION 160 Deg. 170 Deg. 180 Deg. 160 Deg.; Incl. seal & gasket
1 1 1 1 QTY 1 1 1 1	WATER PUMP Water Pump - Heavy Duty Water Pump - Heavy Duty Water Pump - Heavy Duty Water Pump Mech. Shaft Seal Water Pump Gasket Kit THERMOSTAT Thermostat Thermostat Thermostat Thermostat Kit Thermostat Kit Thermostat Kit Thermostat Kit Thermostat Kit Thermostat Kit Thermostat Gasket Water Outlet Gasket	FP-316GC1210A FP-316GC1211A FP-316GC1211A FP-447GC218 FP-57GC182 PART NO. FP-657GC324AP60 FP-657GC324AP80 FP-215SB165B FP-215SB165B FP-215SB165BP3 FP-215SB165BP3 FP-590GB1334 FP-557GB118		EM6 Engs. only; 2-Belt pulley 675/676 Engs.; 3-Belt pulley, long shaft, long housing, cast impeller 675/676 Engs.; 3-Belt pulley, long shaft, long housing, stamped impeller DESCRIPTION 160 Deg. 170 Deg. 180 Deg. 160 Deg.; Incl. seal & gasket 170 Deg.; Incl. seal & gasket 180 Deg.; Incl. seal & gasket Water outlet manifold
1 1 1 1 1 1 1 1 1 1 4 1 1	WATER PUMP Water Pump - Heavy Duty Water Pump - Heavy Duty Water Pump - Heavy Duty Water Pump Mech. Shaft Seal Water Pump Gasket Kit THERMOSTAT Thermostat Thermostat Thermostat Thermostat Kit Thermostat Kit Thermostat Kit Thermostat Kit Thermostat Kit Thermostat Gasket Water Outlet Gasket Oil Seal	FP-316GC1210A FP-316GC1211A FP-316GC1211A FP-447GC218 FP-57GC182 PART NO. FP-657GC324AP60 FP-657GC324AP80 FP-215SB165B FP-215SB165AP2 FP-215SB165BP3 FP-590GB1334 FP-557GB118 FP-447GC216A	SIZE	EM6 Engs. only; 2-Belt pulley 675/676 Engs.; 3-Belt pulley, long shaft, long housing, cast impeller 675/676 Engs.; 3-Belt pulley, long shaft, long housing, stamped impeller DESCRIPTION 160 Deg. 170 Deg. 180 Deg. 160 Deg.; Incl. seal & gasket 170 Deg.; Incl. seal & gasket 180 Deg.; Incl. seal & gasket Water outlet manifold Thermostat seal; PTFE Material
1 1 1 1 1 1 1 1 1 1 4 1 1	WATER PUMP Water Pump - Heavy Duty Water Pump - Heavy Duty Water Pump - Heavy Duty Water Pump Mech. Shaft Seal Water Pump Gasket Kit THERMOSTAT Thermostat Thermostat Thermostat Thermostat Kit Thermostat Kit Thermostat Kit Thermostat Kit Thermostat Kit Thermostat Kit Thermostat Gasket Water Outlet Gasket	FP-316GC1210A FP-316GC1211A FP-316GC1211A FP-447GC218 FP-57GC182 PART NO. FP-657GC324AP60 FP-657GC324AP80 FP-215SB165B FP-215SB165B FP-215SB165BP3 FP-215SB165BP3 FP-590GB1334 FP-557GB118		EM6 Engs. only; 2-Belt pulley 675/676 Engs.; 3-Belt pulley, long shaft, long housing, cast impeller 675/676 Engs.; 3-Belt pulley, long shaft, long housing, stamped impeller DESCRIPTION 160 Deg. 170 Deg. 180 Deg. 160 Deg.; Incl. seal & gasket 170 Deg.; Incl. seal & gasket 180 Deg.; Incl. seal & gasket Water outlet manifold Thermostat seal; PTFE Material
1 1 1 1 1 1 1 1 1 1 1 4 1 TQTY	WATER PUMP Water Pump - Heavy Duty Water Pump - Heavy Duty Water Pump - Heavy Duty Water Pump Mech. Shaft Seal Water Pump Gasket Kit THERMOSTAT Thermostat Thermostat Thermostat Thermostat Kit Thermostat Kit Thermostat Kit Thermostat Kit Thermostat Kit Thermostat Kit Thermostat Gasket Water Outlet Gasket Oil Seal MISCELLANEOUS	FP-316GC1210A FP-316GC1211A FP-316GC1211A FP-447GC218 FP-57GC182 PART NO. FP-657GC324AP60 FP-657GC324AP80 FP-215SB165B FP-215SB165AP2 FP-215SB165BP3 FP-590GB1334 FP-557GB118 FP-447GC216A PART NO.	SIZE	EM6 Engs. only; 2-Belt pulley 675/676 Engs.; 3-Belt pulley, long shaft, long housing, cast impeller 675/676 Engs.; 3-Belt pulley, long shaft, long housing, stamped impeller DESCRIPTION 160 Deg. 170 Deg. 180 Deg. 160 Deg.; Incl. seal & gasket 170 Deg.; Incl. seal & gasket 180 Deg.; Incl. seal & gasket Water outlet manifold Thermostat seal; PTFE Material DESCRIPTION
1 1 1 1 QTY 1 1 1 1 1 1 1 4 1 1 QTY	WATER PUMP Water Pump - Heavy Duty Water Pump - Heavy Duty Water Pump - Heavy Duty Water Pump Mech. Shaft Seal Water Pump Gasket Kit THERMOSTAT Thermostat Thermostat Thermostat Thermostat Kit Thermostat Kit Thermostat Kit Thermostat Kit Thermostat Gasket Water Outlet Gasket Oil Seal MISCELLANEOUS O-Ring ENGINE BLOCK & PARTS GASKETS	FP-316GC1210A FP-316GC1211A FP-316GC1211A FP-447GC218 FP-57GC182 PART NO. FP-657GC324AP60 FP-657GC324AP70 FP-657GC324AP80 FP-215SB165B FP-215SB165AP2 FP-215SB165AP2 FP-215SB165BP3 FP-590GB1334 FP-557GB118 FP-447GC216A PART NO. FP-56AX393	SIZE	EM6 Engs. only; 2-Belt pulley 675/676 Engs.; 3-Belt pulley, long shaft, long housing, cast impeller 675/676 Engs.; 3-Belt pulley, long shaft, long housing, stamped impeller DESCRIPTION 160 Deg. 170 Deg. 180 Deg. 160 Deg.; Incl. seal & gasket 170 Deg.; Incl. seal & gasket 180 Deg.; Incl. seal & gasket Water outlet manifold Thermostat seal; PTFE Material DESCRIPTION
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	WATER PUMP Water Pump - Heavy Duty Water Pump - Heavy Duty Water Pump - Heavy Duty Water Pump Mech. Shaft Seal Water Pump Gasket Kit THERMOSTAT Thermostat Thermostat Thermostat Thermostat Kit Thermostat Kit Thermostat Kit Thermostat Kit Thermostat Gasket Water Outlet Gasket Oil Seal MISCELLANEOUS O-Ring ENGINE BLOCK & PARTS GASKETS Oil Pan Gasket	FP-316GC1210A FP-316GC1211A FP-316GC1211A FP-447GC218 FP-57GC182 PART NO. FP-657GC324AP60 FP-657GC324AP70 FP-657GC324AP80 FP-215SB165B FP-215SB165AP2 FP-215SB165BP3 FP-590GB1334 FP-557GB118 FP-447GC216A PART NO. FP-56AX393	SIZE	EM6 Engs. only; 2-Belt pulley 675/676 Engs.; 3-Belt pulley, long shaft, long housing, cast impeller 675/676 Engs.; 3-Belt pulley, long shaft, long housing, stamped impeller DESCRIPTION 160 Deg. 170 Deg. 180 Deg.; Incl. seal & gasket 170 Deg.; Incl. seal & gasket 180 Deg.; Incl. seal & gasket 180 Deg.; Incl. seal & gasket Uter outlet manifold Thermostat seal; PTFE Material DESCRIPTION Coolant conditioner adapter
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	WATER PUMP Water Pump - Heavy Duty Water Pump - Heavy Duty Water Pump - Heavy Duty Water Pump Mech. Shaft Seal Water Pump Gasket Kit THERMOSTAT Thermostat Thermostat Thermostat Thermostat Kit Thermostat Kit Thermostat Kit Thermostat Kit Thermostat Gasket Water Outlet Gasket Oil Seal MISCELLANEOUS O-Ring ENGINE BLOCK & PARTS GASKETS Oil Pan Gasket	FP-316GC1210A FP-316GC1211A FP-316GC1211A FP-447GC218 FP-57GC182 PART NO. FP-657GC324AP60 FP-657GC324AP70 FP-657GC324AP80 FP-215SB165B FP-215SB165AP2 FP-215SB165BP3 FP-590GB1334 FP-557GB118 FP-447GC216A PART NO. FP-56AX393	SIZE	EM6 Engs. only; 2-Belt pulley 675/676 Engs.; 3-Belt pulley, long shaft, long housing, cast impeller 675/676 Engs.; 3-Belt pulley, long shaft, long housing, stamped impeller DESCRIPTION 160 Deg. 170 Deg. 180 Deg. 160 Deg.; Incl. seal & gasket 170 Deg.; Incl. seal & gasket 180 Deg.; Incl. seal & gasket 180 Deg.; Incl. seal & gasket Water outlet manifold Thermostat seal; PTFE Material DESCRIPTION Coolant conditioner adapter DESCRIPTION DESCRIPTION
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	WATER PUMP Water Pump - Heavy Duty Water Pump - Heavy Duty Water Pump - Heavy Duty Water Pump Mech. Shaft Seal Water Pump Gasket Kit THERMOSTAT Thermostat Thermostat Thermostat Kit Thermostat Kit Thermostat Kit Thermostat Kit Thermostat Gasket Water Outlet Gasket Oil Seal MISCELLANEOUS O-Ring ENGINE BLOCK & PARTS GASKETS Oil Pan Gasket GASKET SETS Gasket Conversion Set In-Frame Gasket Set	FP-316GC1210A FP-316GC1211A FP-316GC1211A FP-447GC218 FP-57GC182 PART NO. FP-657GC324AP60 FP-657GC324AP70 FP-657GC324AP80 FP-215SB165B FP-215SB165BP3 FP-215SB165BP3 FP-590GB1334 FP-557GB118 FP-447GC216A PART NO. FP-56AX393 PART NO. FP-579GB41C PART NO. FP-579GB41C PART NO. FP-126SB188 FP-PGM187IF	SIZE	EM6 Engs. only; 2-Belt pulley 675/676 Engs.; 3-Belt pulley, long shaft, long housing, cast impeller 675/676 Engs.; 3-Belt pulley, long shaft, long housing, stamped impeller DESCRIPTION 160 Deg. 170 Deg. 180 Deg.; Incl. seal & gasket 170 Deg.; Incl. seal & gasket 180 Deg.; Incl. seal & gasket Water outlet manifold Thermostat seal; PTFE Material DESCRIPTION Coolant conditioner adapter DESCRIPTION DESCRIPTION Rear crank seal not incl.
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	WATER PUMP Water Pump - Heavy Duty Water Pump - Heavy Duty Water Pump - Heavy Duty Water Pump Mech. Shaft Seal Water Pump Gasket Kit THERMOSTAT Thermostat Thermostat Thermostat Kit Thermostat Kit Thermostat Kit Thermostat Kit Thermostat Gasket Water Outlet Gasket Oil Seal MISCELLANEOUS O-Ring ENGINE BLOCK & PARTS GASKETS Oil Pan Gasket GASKET SETS Gasket Conversion Set In-Frame Gasket Set Complete Overhaul Gasket Set	FP-316GC1210A FP-316GC1211A FP-316GC1211A FP-447GC218 FP-57GC182 PART NO. FP-657GC324AP60 FP-657GC324AP80 FP-215SB165B FP-215SB165AP2 FP-215SB165AP2 FP-215SB165B34 FP-557GB118 FP-57GB118 FP-447GC216A PART NO. FP-56AX393 PART NO. FP-579GB41C PART NO. FP-126SB188 FP-PGM1870H	SIZE SIZE SIZE	EM6 Engs. only; 2-Belt pulley 675/676 Engs.; 3-Belt pulley, long shaft, long housing, cast impeller 675/676 Engs.; 3-Belt pulley, long shaft, long housing, stamped impeller DESCRIPTION 160 Deg. 170 Deg. 180 Deg. 160 Deg.; Incl. seal & gasket 170 Deg.; Incl. seal & gasket 180 Deg.; Incl. seal & gasket Water outlet manifold Thermostat seal; PTFE Material DESCRIPTION Coolant conditioner adapter DESCRIPTION Rear crank seal not incl. Rear crank seal not incl.
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	WATER PUMP Water Pump - Heavy Duty Water Pump - Heavy Duty Water Pump - Heavy Duty Water Pump Mech. Shaft Seal Water Pump Gasket Kit THERMOSTAT Thermostat Thermostat Thermostat Kit Thermostat Kit Thermostat Kit Thermostat Kit Thermostat Gasket Water Outlet Gasket Oil Seal MISCELLANEOUS O-Ring ENGINE BLOCK & PARTS GASKETS Oil Pan Gasket GASKET SETS Gasket Conversion Set In-Frame Gasket Set Complete Overhaul Gasket Set	FP-316GC1210A FP-316GC1211A FP-316GC1211A FP-447GC218 FP-57GC182 PART NO. FP-657GC324AP60 FP-657GC324AP70 FP-657GC324AP80 FP-215SB165B FP-215SB165AP2 FP-215SB165AP2 FP-215SB165BP3 FP-590GB1334 FP-557GB118 FP-447GC216A PART NO. FP-56AX393 PART NO. FP-579GB41C PART NO. FP-126SB188 FP-PGM1871F FP-PGM1870H	SIZE SIZE SIZE	EM6 Engs. only; 2-Belt pulley 675/676 Engs.; 3-Belt pulley, long shaft, long housing, cast impeller 675/676 Engs.; 3-Belt pulley, long shaft, long housing, stamped impeller DESCRIPTION 160 Deg. 170 Deg. 180 Deg.; Incl. seal & gasket 170 Deg.; Incl. seal & gasket 180 Deg.; Incl. seal & gasket Water outlet manifold Thermostat seal; PTFE Material DESCRIPTION Coolant conditioner adapter DESCRIPTION DESCRIPTION Rear crank seal not incl.
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	WATER PUMP Water Pump - Heavy Duty Water Pump - Heavy Duty Water Pump - Heavy Duty Water Pump Mech. Shaft Seal Water Pump Gasket Kit THERMOSTAT Thermostat Thermostat Thermostat Kit Thermostat Kit Thermostat Kit Thermostat Kit Thermostat Gasket Water Outlet Gasket Oil Seal MISCELLANEOUS O-Ring ENGINE BLOCK & PARTS GASKETS Oil Pan Gasket GASKET SETS Gasket Conversion Set In-Frame Gasket Set Complete Overhaul Gasket Set	FP-316GC1210A FP-316GC1211A FP-316GC1211A FP-447GC218 FP-57GC182 PART NO. FP-657GC324AP60 FP-657GC324AP80 FP-215SB165B FP-215SB165AP2 FP-215SB165AP2 FP-215SB165B34 FP-557GB118 FP-57GB118 FP-447GC216A PART NO. FP-56AX393 PART NO. FP-579GB41C PART NO. FP-126SB188 FP-PGM1870H	SIZE SIZE SIZE	EM6 Engs. only; 2-Belt pulley 675/676 Engs.; 3-Belt pulley, long shaft, long housing, cast impeller 675/676 Engs.; 3-Belt pulley, long shaft, long housing, stamped impeller DESCRIPTION 160 Deg. 170 Deg. 180 Deg. 160 Deg.; Incl. seal & gasket 170 Deg.; Incl. seal & gasket 180 Deg.; Incl. seal & gasket Water outlet manifold Thermostat seal; PTFE Material DESCRIPTION Coolant conditioner adapter DESCRIPTION Rear crank seal not incl. Rear crank seal not incl.



13 H/D Truck E6-315, E6-315(R), E6-350, E6-350(R), EM6-250, EM6-275(R), EM6-285, (cont.) EM6-285(R), EM6-300(R), EME6-285(R), ETSZ(B)-673A, ETSZ(B)-676, ETSZ(B)-676A, ETSZ(B)-677 Engs. (4-Valve Cyl. Head) 11.0L 672 OHV Turbo-Diesel L6, 4.875" Bore

	11.02 072 0117 14150 510001 20, 11.070 5010						
	ENGINE BLOCK & PARTS (cont.)						
QTY	CAM BEARINGS (cont.)	PART NO.	SIZE	DESCRIPTION			
6	Cam Brg.	FP-59GB1109BP1		Position No. 2-3-4-5-6-7			
1	Cam Brg.	FP-61GB15C		Position Rear; Aux. Shaft			
OTV	ENGINE BEARING MISC.	PART NO.	SIZE	*			
1	Aux. Shaft Set	FP-57GC267	SIZE	Position Front & Rear; Incl. cam thrust washer, pin, front & rear			
l i	Aux. Shart Set	FF-3/GC20/		bearings			
				•			
	OIL COOLERS & FILTERS	PART NO.	SIZE				
1	Oil Cooler Gasket	FP-549GB28AP4		Oil cooler to core			
2	Oil Cooler Water Gasket	FP-549GB28P1		Oil cooler to water outlet			
QTY	MISCELLANEOUS	PART NO.	SIZE	DESCRIPTION			
1	Oil Filler Cap	FP-222GB213		1 3/8", Current style			
1	Oil Filler Cap	FP-222GB135A		1 3/8", Old style			
1	Oil Filler Cap	FP-222GB214		2", w/chain			
1	Oil Filler Cap	FP-222GB27A		2", w/o chain			
	CRANKSHAFT/OIL PUMP						
QTY	CRANKSHAFT	PART NO.	SI7F	DESCRIPTION			
1	Crankshaft	FP-456GC5113P1	J	Crankshaft only; Crankshaft only			
1	Crankshaft & Bearing Kit	FP-456GC2139		Incl. Crankshaft, Main Brg. Set (STD), Rod Brg. Set (STD)			
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	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION			
1	Oil Seal	FP-446GC1115		A A / All O. D. Macanasa			
1	Oil Seal	FP-446GC181		4 1/4" O.D.; Neoprene			
1	Oil Seal	FP-446GC316		4" O.D.; Neoprene			
1	Redi-Sleeve	99324					
	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION			
1	Oil Seal	FP-446GC238A					
1	Oil Seal Kit	FP-57GC186B		Neoprene; Incl. Seal & Wear Sleeve			
1	Redi-Sleeve	99599					
QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION			
1	Main Set	FP-215SB72DP1	STD	Incl. thrust washers & lock pins			
1	Main Set	FP-215SB72DP2		Incl. thrust washers & lock pins			
1	Main Set	FP-215SB72DP3		Incl. thrust washers & lock pins			
2	Thrust Washer Set	FP-57GC279		Incl. (2) Thrust Washers, (1) Lock Pin			
4	Thrust Washer	FP-714GC211AP1	STD	• • •			
2	Thrust Washer Lock Pin	FP-183GC23					
QTY	OIL PUMP	PART NO.	SIZE	DESCRIPTION			
1	Oil Pump Inlet Pipe Gasket	FP-591GB11C					
1	O-Ring	FP-446GC1161		Oil filter mounting seal			
1	O-Ring	FP-56AX470		Oil pickup tube to housing cover			
1	Oil Pump Cover Gasket	FP-590GB1243B		Flange plate to housing cover			
1	Oil Filter Pad Cover Gasket	FP-590GB1152B		Oil pressure control			
1	Oil Press Control Housing Gsk	FP-590GB1267B		•			
1	Pressure Relief Housing	FP-590GB1109B					
1	Pressure Relief Housing	FP-590GB1266					
1	Oil Filler Spout Gasket	FP-56AX447					
1	Oil Fitting Gasket	FP-590GB1309		Oil filter mounting			
	CYLINDER COMPONENTS						
QTY	<u> </u>	PART NO.	SIZE	DESCRIPTION			
6	Liner w/o Sealing Rings	FP-509GC284AP1	STD	2200.m 11011			
6	Liner w/o Sealing Rings	FP-509GC284AP2	2				
6	Liner w/o Sealing Rings	FP-509GC284AP6	6				
6	Liner w/o Sealing Rings	FP-509GC284AP12	12				
6	Liner w/o Sealing Rings	FP-509GC284AP20	20				
6	Cylinder Kit Complete	FP-57GC373A	STD	W/4 valve heads			
6	Cylinder Kit Complete	FP-57GC373P2	2	W/4 valve heads			
6	Cylinder Kit Complete	FP-57GC373P6	6	W/4 valve heads			
6	Cylinder Kit Complete	FP-57GC373P12	12	W/4 valve heads			
6	Cylinder Kit Complete	FP-57GC373P20	20	W/4 valve heads			
QTY	PISTONS	PART NO.	SIZE	DESCRIPTION			
6	Piston Kit w/Pin & Retainers	FP-57GC288	STD				
6	Pin	FP-182GC1356P3	SID	TI, I Taito Houdo			
12	Piston Pin Retainer	FP-97AX124					
6	Pin Bushing	FP-187GB138					



H/D Truck E6-315, E6-315(R), E6-350, E6-350(R), EM6-250, EM6-275(R), EM6-285, EM6-285(R), EM6-300(R), EME6-285(R), ETSZ(B)-673A, ETSZ(B)-676, ETSZ(B)-676A, (cont.) **ETSZ(B)-677 Engs. (4-Valve Cyl. Head)** 11.0L 672 OHV Turbo-Diesel L6, 4.875" Bore

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	CYLINDER COMPONENTS (cont.)					
	CONNECTING RODS &					
QTY	BRGS.	PART NO.	SIZE	DESCRIPTION		
6	Rod Pair	FP-62GB2393P1	STD			
6	Rod Pair	FP-62GB2393P10	10			
6	Rod Pair	FP-62GB2393P20	20			
6	Rod Pair	FP-62GB2393P30	30			
QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION		
6	Ring Set Single Cylinder	FP-353GC2139	STD	Check piston grooving before supplying ring set; Check piston grooving before using ring set		
1	Premium Set	FP-353GC2139S	STD	Check piston grooving before supplying ring set; Check piston grooving before using ring set		
	KITS					
QTY	OVERHAUL KIT	PART NO.	SIZE	DESCRIPTION		
1	In-Frame Overhaul Kit	FP-IFK579		W/4 valve heads		
1	Complete Overhaul Kit	FP-IFK579OH		W/4 valve heads		

H/D Truck EN-707, EN-707A, EN-707B, EN-707C, ENF-707, ENF-707A, ENF-707B Engs. 11.6L 707 OHV L6, 5" Bore

	CAMSHAFT GROUP			
QTY	TIMING	PART NO.	SIZE	DESCRIPTION
1	Dowel Pin	FP-31AX638		Thrust washer locating pin; Knurled
QTY	CAMSHAFT/LIFTER	PART NO.	SIZE	DESCRIPTION
1	Camshaft Thrust Washer	FP-701GC11A		
	COOLING SYSTEM			
QTY	THERMOSTAT	PART NO.	SIZE	DESCRIPTION
1	Oil Seal	FP-447GC216A		Thermostat seal; PTFE Material
	ENGINE BLOCK & PARTS			
QTY	CAM BEARINGS	PART NO.		DESCRIPTION
1	Cam Set	FP-1417M		Aux. drive
1	Cam Set	FP-1476M	STD	Drive shaft thrust washer
1	Cam Set	1476M + Std Only		Drive shaft thrust washer; When depleted use FP-1476M
1	Cam Set	FP-1413M	STD	Engs. w/cyl. block No. 239GB-5320B. Brg. Nos. 2 through 6 have a 1/4" dia. hole
1	Cam Set	1413M + Std Only		Engs. w/cyl. block No. 239GB-5320B. Brg. Nos. 2 through 6 have a 1/4" dia. hole; When depleted use FP-1413M
1	Cam Set	FP-1274M	STD	Engs. To 4/84 w/1.500" groove on brgs. Nos. 2-3-4-5-6.
1	Cam Set	1274M + Std Only		Engs. To 4/84 w/1.500" groove on brgs. Nos. 2-3-4-5-6.; When depleted use FP-1274M
1	Cam Set	FP-1406M	STD	
1	Cam Set	1406M + Std Only		Engs. To 4/84 w/2.00" groove on No. 2 & 5 brgs.; When depleted use FP-1406M
	CRANKSHAFT/OIL PUMP			
QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Redi-Sleeve	99324		
1	Oil Seal	FP-446GC1115		
QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal	39807		
1	Redi-Sleeve	99599		
	CYLINDER COMPONENTS			
QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
6	Pin Bushing	FP-187GB138		W/2" pin dia.
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H/D Truck END-707, END-711, ENDD-711, ENDL-711, ENDLT-711, ENDT-711, ENF-707, 15 **ENF-711, ENS-707, ENS-711 Engs.** 11.6L 707 OHV Diesel L6, 5" Bore

	CYL. HEAD & PARTS			
QTY	VALVE	PART NO.	SIZE	DESCRIPTION
12	Intake	FP-690GC2187B		Use w/FP54GC19 valve keeper; w/.293" wide lock grooves



15 H/D Truck END-707, END-711, ENDD-711, ENDL-711, ENDLT-711, ENDT-711, ENF-707, ENF-711, ENF-707, ENF-711, ENF-707, ENF-711, ENF-707, ENF

	11.0L 707 Onv Diesei L6, 5 Boil			
	CYL. HEAD & PARTS (cont.)			
QTY 12	VALVE (cont.) Exhaust	PART NO. FP-688GC337A	SIZE	DESCRIPTION Chrome plated stem; w/.137" wide lock groove; Use w/FP-54GC126 keepers
48 48	Keeper Keeper	FP-54GC126 FP-54GC19		W./137" wide lock grooves; For 7/16" Stem Dia. Use w/.293" Wide Lock Groove
OTY	VALVE SEAT	PART NO.	SIZE	DESCRIPTION
12	Exh.	FP-13GC2247P1	STD	DECOMI NON
12	Exh.	FP-13GC2247P10	10	
12	Exh.	FP-13GC2247P15	15	
12	Exh.	FP-13GC2247P20	20	
12	Exh.	FP-13GC2247P30	30	
	VALVE GUIDE	PART NO.	SIZE	
12	Guide	FP-714GB210P4		Exh.; For .4965" stem dia.; Semi-Finished
12	Guide	FP-714GB210P4		Int.; Semi-Finished
	VALVE SPRING	PART NO.	SIZE	
24	Spring Spring	FP-575GC31 FP-575GC1100		Inner Outer
24	-			
QTY 12	VALVE MISC. Rotocap	<i>PART NO.</i> FP-722GC226	SIZE	DESCRIPTION Exh.
	CAMSHAFT GROUP			
OTV	TIMING	PART NO.	SIZE	DESCRIPTION
1	Dowel Pin	FP-31AX638	SIZL	Thrust washer locating pin; Knurled
OTY	CAMSHAFT/LIFTER	PART NO.	SIZE	31. 1
1	Camshaft Thrust Washer	FP-701GC11A	OIZL	DECORIT HON
-	COOLING SYSTEM			
OTV		DADTNO	CIZE	DECODIFICAL
Q 1 Y	THERMOSTAT Oil Seal	PART NO. FP-447GC216A	SIZE	DESCRIPTION Thermostat seal; PTFE Material
'		11-44/GC210A		memostat seal, i ii E iviateriai
	ENGINE BLOCK & PARTS			
1 -	CAM BEARINGS	PART NO.		DESCRIPTION
1	Cam Set Cam Set	FP-1417M FP-1476M	-	Aux. drive Drive shaft thrust washer
	Cam Set	1476M + Std Only	310	Drive shaft thrust washer; When depleted use FP-1476M
1	Cam Set	FP-1413M	STD	Engs. w/cyl. block No. 239GB-5320B. Brg. Nos. 2 through 6
				have a 1/4" dia. hole
1	Cam Set	1413M + Std Only		Engs. w/cyl. block No. 239GB-5320B. Brg. Nos. 2 through 6
1	Cam Set	FP-1409M	STD	have a 1/4" dia. hole; When depleted use FP-1413M Engs. From 4/84 w/2.440" dia. shaft Nos. 1-2-3-4-5-6-7.
	Cam Set	1409M + Std Only	310	Engs. From 4/84 w/2.440" dia. shaft Nos. 1-2-3-4-5-6-7. Engs. From 4/84 w/2.440" dia. shaft Nos. 1-2-3-4-5-6-7.; When
	Sam Set	1403M + Std Offig		depleted use FP-1409M
1	Cam Set	FP-1274M	STD	Engs. To 4/84 w/1.500" groove on brgs. Nos. 2-3-4-5-6.
1	Cam Set	1274M + Std Only		Engs. To 4/84 w/1.500" groove on brgs. Nos. 2-3-4-5-6.; When
.		ED 440017		depleted use FP-1274M
1	Cam Set	FP-1406M	STD	Engs. To 4/84 w/2.00" groove on No. 2 & 5 brgs.
1	Cam Set	1406M + Std Only		Engs. To 4/84 w/2.00" groove on No. 2 & 5 brgs.; When depleted use FP-1406M
	CRANKSHAFT/OIL PUMP			
OTV	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Redi-Sleeve	99324	JILL	223.W 110W
1	Oil Seal	FP-446GC1115		
QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal	39807		
1	Redi-Sleeve	99599		
QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Main Set	FP-6636M	_	Incl. thrust washer set
1	Main Set	FP-6636M10		Incl. thrust washer set
1	Main Set	FP-6636M20	20	Incl. thrust washer set
	CYLINDER COMPONENTS			
QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
6	Pin Bushing	FP-187GB138		W/2" pin dia.



H/D Truck END-707, END-711, ENDD-711, ENDL-711, ENDLT-711, ENDT-711, ENF-707, 15 ENF-711, ENS-707, ENS-711 Engs. (cont.) 11.6L 707 OHV Diesel L6, 5" Bore

	CYLINDER COMPONENTS (cont.)							
	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION				
6	Rod Pair	FP-62GB2393P1	STD	Engs. From late 1985				
6	Rod Pair	FP-62GB2393P10	10	Engs. From late 1985				
6	Rod Pair	FP-62GB2393P20	20	Engs. From late 1985				
6	Rod Pair	FP-62GB2393P30	30	Engs. From late 1985				
6	Rod Pair	FP-62GB2382P1	STD	To early 1985				
6	Rod Pair	FP-62GB2382P10	10	To early 1985				
6	Rod Pair	FP-62GB2382P20	20	To early 1985				
6	Rod Pair	FP-62GB2382P30	30	To early 1985				
6	Rod Pair	FP-62GB2382P40	40	To early 1985				

H/D Truck **E7 Series PLN Engs.** 12.1L 728 OHV Turbo-Diesel L6 (E7 PLN), 4.875" Bore

				2720 0111 14100 010001 20 (27 1 211); 11070 0010
	CYL. HEAD & PARTS			
1 1 1 2 1	GASKETS Breather Housing Gasket Valve Cover Gasket Valve Cover Gasket Head Set Head Set Head Set Head Set	PART NO. FP-590GB2167 FP-554GB321 FP-554GB115 FP-57GC2115A FP-57GC2118A PGM2118A	SIZE	DESCRIPTION Block breather Silicone rubber w/Joined Ends Silicone rubber, Exc. Joined Ends Incl. (1) 553GB473 Head Gasket, (3) 44002 Fire Rings Upper gasket set; w/o head gaskets Upper gasket set; Incl. head gaskets
QTY 12 12 24	VALVE Intake Exhaust Keeper	PART NO. FP-690GC2210 FP-688GC2378 FP-54GC25	SIZE	DESCRIPTION 3/8" Valve Stem, 30 Degree Face For 3/8" stem dia.; 3/8" Valve Stem Exh. & Int.; For 3/8" Stem Dia.
12 12 12 12 12 12 12 12	VALVE SEAT Exh. Exh. Exh. Int. Int. Int.	PART NO. FP-13GC2264P5 FP-13GC2264P15 FP-13GC2264P31 FP-13GC2251P5 FP-13GC2251P15 FP-13GC2251P31	5 15 31 5 15 15	DESCRIPTION
QTY 24	VALVE GUIDE Guide	PART NO. FP-714GB222P2	SIZE	DESCRIPTION Exh. & Int.; For 3/8" stem dia.
QTY 24	VALVE SPRING Spring	PART NO. FP-575GC213	SIZE	DESCRIPTION Exh. & Int.
QTY 6 24	VALVE SEAL Valve Stem Seal Valve Stem Seal	PART NO. FP-446GC138B FP-446GC328	SIZE	DESCRIPTION Rocker shaft support bracket; O-Ring; For 7/16" Stem Dia. Exh. & Int.; For 3/8" stem dia.; Use w/FP-714GB222P2 Guide; For 3/8" Stem Dia.
	INT & EXH MANIFOLDS			
QTY 6 6 6 1	INT. & EXH. MANIFOLDS Exhaust Manifold Gasket Exhaust Manifold Gasket Exhaust Manifold Gasket Intake Manifold Gasket	PART NO. FP-573GB257A FP-573GB310B FP-573GB310A + FP-590GB312B	SIZE	W/Steel band, 4 bolt holes w/Steel band, 4 bolt holes; When depleted use FP-573GB310B One-piece
	CAMSHAFT GROUP			
QTY 1	TIMING COVER O-Ring	PART NO. FP-56AX548	SIZE	DESCRIPTION Alum. timing cover
	FUEL SYSTEM & PARTS			
1	FUEL FILTERS & PUMP O-Ring	PART NO. FP-446GC1149		DESCRIPTION Dynatard Solenoid
QTY 1	TURBOCHARGER Turbocharger/Manifold Gasket	PART NO. FP-590GB1189A	SIZE	DESCRIPTION To Exh. manifold; Single port
	COOLING SYSTEM			
QTY 1 1 1 1	WATER PUMP Water Pump Gasket Kit Water Pump Housing Gasket Water Passage Gasket Oil Seal	PART NO. FP-57GC182 FP-610GB216 FP-56AX107 FP-447GC216A		7-Hole To water pump housing; 2-Hole Thermostat to housing; PTFE Material



1 (cor	16 H/D Truck E7 Series PLN Engs. cont.) 12.1L 728 OHV Turbo-Diesel L6 (E7 PLN), 4.875" Bore					
	COOLING SYSTEM (cont.)					
	WATER PUMP (cont.)	PART NO.	SIZE	DESCRIPTION		
2 QTY	O-Ring THERMOSTAT Thermostat Kit	FP-56AX393 PART NO. FP-215SB165B	SIZE			
1	Thermostat Kit Thermostat Kit	FP-215SB165AP2		160 Deg.; Incl. seal & gasket 170 Deg.; Incl. seal & gasket		
1	Thermostat Kit Thermostat Gasket	FP-215SB165BP3 FP-590GB1334		180 Deg.; Incl. seal & gasket Check valve housing		
1	Water Outlet Gasket	FP-557GB118		Water outlet manifold		
	ENGINE BLOCK & PARTS					
QTY 1	GASKETS Oil Pan Gasket	PART NO. FP-579GB41C	SIZE	DESCRIPTION		
1	Oil Pan Gasket	FP-579GB422		Rubber		
30	Isolator Bushing	FP-41GC212		Use w/FP-579GB422 oil pan gskt.		
QTY 1	GASKET SETS Gasket Conversion Set	<i>PART NO.</i> FP-57GC2119	SIZE	DESCRIPTION		
1	In-Frame Gasket Set	FP-PGM2118AIF		Mhan danlated use ED DOMOMONE		
1 QTY	In-Frame Gasket Set CAM BEARINGS	PGM2118A-IF +	SIZE	When depleted use FP-PGM2118AIF DESCRIPTION		
5	Cam Brg.	FP-59GB217		Position 2-3-5-6-7		
	OIL COOLERS & FILTERS	PART NO.	SIZE			
1 1	Oil Cooler Gasket Oil Cooler Gasket	FP-549GB28AP4 FP-56AX392		Cooler to water inlet housing Cooler to water pump outlet housing		
1	O-Ring	FP-446GC225A		Oil cooler tube seal		
1	O-Ring O-Ring	FP-446GC1161 FP-446GC1160		Oil inlet tube Oil inlet tube to manifold		
•	CRANKSHAFT/OIL PUMP			on more table to manner		
QTY	SEALS - REAR CRANK	PART NO.	SIZE			
1	Oil Seal	FP-446GC316		Front; 4" O.D.; Neoprene		
1	Oil Seal Oil Seal Kit	FP-446GC310P12 FP-57GC186B		Rear; Supersedes FP-446GC335; PTFE; w/Wear Sleeve Rear; Neoprene; Incl. Seal & Wear Sleeve		
	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION		
1 1	Main Set Main Set	FP-57GC387 FP-57GC387AP10	STD 10			
1	Main Set	FP-57GC387AP20	20			
1	Thrust Washer Set OIL PUMP	FP-57GC2144 PART NO.	STD	DESCRIPTION		
1	O-Ring	FP-56AX470	SIZE	Oil pickup tube gasket		
1	Oil Pump Cover Gasket	FP-590GB1243B				
	CYLINDER COMPONENTS					
Q1Y 6	LINERS Liner w/o Sealing Rings	<i>PART NO.</i> FP-509GC475 *		DESCRIPTION PLN Engines; Stand-up height .0214"029"		
6	Liner w/o Sealing Rings	FP-509GC463	STD	PLN Engines; Stand-up height .022"027"		
6	Cylinder Kit Complete	FP-57GC2249463 *	SID	Articulated Piston; PLN Engines; 15.7:1 C.R.; Incl. 509GC463 Liner & 240GC597AM Crown		
6	Cylinder Kit Complete	FP-57GC3118A	STD	1991-89; Articulated Piston; To convert one-piece pistons to articulated pistons; PLN Engines; 16.5:1 C.R.		
6	Cylinder Kit Complete Cylinder Kit Complete	FP-215SB220A		1994-91; Articulated Piston; PLN Engines; 16.9:1 C.R. 1995-94; Articulated Piston; PLN Engines; 15.3:1 C.R.		
6 6	Cylinder Kit Complete Cylinder Kit Complete	FP-215SB218D FP-215SB219E		1995-94; Articulated Piston; PLN Engines; 15.3:1 C.R. 1996-94; Articulated Piston; PLN Engines; 16.5:1 C.R.		
6	O-Ring	FP-446GC1241 FP-447GC235		Lower seal Crevice seal		
	Sealing Ring, Liner PISTONS	PART NO.	SIZE			
6	Pin	FP-182GC2223	-			
12 6	Piston Pin Retainer Piston Cooling Nozzle	FP-97AX127 FP-115GC316		For Articulated Piston engines		
6	Sealing Ring	FP-52AX47		Oil cooling nozzle seal		
6	Pin Bushing CONNECTING RODS &	FP-187GB29 *				
	BRGS.	PART NO.	SIZE	DESCRIPTION		
12	Con. Rod Bolt Rod Pair	FP-396GC24M FP-62GB2396AP1	STD	M16 x 1.5 x 76MM		
6	Rod Pair	FP-62GB2396AP10	10			
6	Rod Pair	FP-62GB2396AP20	20			



	DIESEL®				Mack
				12.1	H/D Truck E7 Series PLN Engs. 16 L 728 OHV Turbo-Diesel L6 (E7 PLN), 4.875" Bore (cont.)
(CYLINDER COMPONE	NTS (cont.)		
	PISTON RINGS		PART NO.	SIZE	DESCRIPTION
6	Ring Set Single Cylinder		FP-353GC2142		E7 Series; Plasma rings
	CLUTCH CLUTCH		PART NO.	Q17E	DESCRIPTION
1	Ball Brg.		FP-46AX534	SIZE	Rear pilot bearing kit
	KITS				
	OVERHAUL KIT		PART NO.	SIZE	DESCRIPTION
1 1	In-Frame Overhaul Kit In-Frame Overhaul Kit		FP-IFKE7CN FP-IFKE7		w/Cooling nozzles; To convert 1 pc. pistons to Articulated pistons PLN Engines
1	Complete Overhaul Kit		FP-OHE7CN		w/Cooling nozzles; To convert 1 pc. pistons to Articulated pistons; Incl. piston cooling nozzles
1	Complete Overhaul Kit		FP-OHE7		PLN Engines
	H/D 7	Truck E7	Series E-TECH 12.1L 728 ((EUP ΟΗV Τι	P), E7-380, E7-410, E7-427, E7-460 Engs. 17 urbo-Diesel L6 (E7 E-Tech), 4.875" Bore 1998-2002
	CYL. HEAD & PARTS				, ,
	GASKETS	YEARS	PART NO.	SIZE	
1	Breather Housing Gasket Valve Cover Gasket	02-98 02-98	FP-590GB2167 FP-554GB321		Breather to block Silicone rubber w/Joined Ends
1	Valve Cover Gasket	02-98	FP-554GB115		Silicone rubber, Exc. Joined Ends
1 2	Head Set Head Set	02-98 02-98	FP-215SB334A FP-57GC2176		w/o Head Gaskets Incl. Head Gasket & Fire Rings only
1	Head Set	02-98	FP-PGM334A		Incl. Head Gaskets
	VALVE	YEARS	PART NO.	SIZE	
12 12	Intake Exhaust	02-98 02-98	FP-690GC432 * FP-688GC344 *		Replaces 690GC410
48	Keeper	02-98	FP-54GC25		Exh. & Int.; For 3/8" Stem Dia.
QTY V	VALVE SPRING Spring	YEARS 00-98	<i>PART NO.</i> FP-575GC213	SIZE	DESCRIPTION Exh. & Int.; Engs. built before 2/22/1999
QTY 6	VALVE SEAL Valve Stem Seal	YEARS 02-98	PART NO. FP-446GC138B	SIZE	DESCRIPTION Rocker shaft support bracket; O-Ring; For 7/16" Stem Dia.
	INT & EXH MANIFOLD	S			
	INT. & EXH. MANIFOLDS	YEARS	PART NO.	SIZE	DESCRIPTION
6	Exhaust Manifold Gasket Exhaust Manifold Gasket	02-98 02-98	FP-573GB257A FP-573GB310B		w/Steel band, 4 bolt holes
6	Exhaust Manifold Gasket Intake Manifold Gasket	02-98 02-98	FP-573GB310A + FP-590GB312B		w/Steel band, 4 bolt holes; When depleted use FP-573GB310B
	CAMSHAFT GROUP	02-90	FF-390GB31ZB		One-piece
	TIMING COVER	YEARS	PART NO.	SIZE	DESCRIPTION
1	O-Ring	02-98	FP-56AX548		Pump to timing cover
-	FUEL SYSTEM & PAR	TS			
QTY I	FUEL INJECTION Fuel Injector Seal	YEARS 02-98	<i>PART NO.</i> FP-590GB1127	SIZE	DESCRIPTION Copper
6	Fuel Injector Nozzle Seal Kit	02-98	FP-207SB12		
6 12	O-Ring O-Ring	02-98 02-98	FP-56AX460 FP-446GC1208		Fuel Inj. nozzle, Top groove seal Fuel Inj. nozzle, 2nd & 3rd groove seal
1	O-Ring Kit	02-98	FP-8609EHL243		Fuel Inj. Unit pump- Bosch pump DGK132; Incl. (1) EHL243-1 & (1) EHL243-2 O-Rings
QTY I	FUEL FILTERS & PUMP O-Ring	YEARS 02-98	PART NO. FP-446GC1149	SIZE	DESCRIPTION Dynatard Solenoid
QTY 1	TURBOCHARGER Turbocharger/Manifold Gasket	YEARS 02-98	PART NO. FP-590GB1189A	SIZE	DESCRIPTION To Exh. manifold; Single port
	COOLING SYSTEM	02 00	555551165A		To Extra manifold, Onigio porc
	WATER PUMP	YEARS	PART NO.	SIZE	DESCRIPTION
1	Water Pump Gasket Kit	02-98	FP-57GC182		
1	Water Pump Housing Gasket Water Passage Gasket	02-98 02-98	FP-610GB216 FP-56AX107		7-Hole To water pump housing; 2-Hole
	THERMOSTAT	YEARS	PART NO.	SIZE	DESCRIPTION
1	Thermostat Kit Thermostat Kit	02-98 02-98	FP-215SB165B FP-215SB165AP2		160 Deg.; Incl. seal & gasket 170 Deg.; Incl. seal & gasket
	Thermostat Kit	02-98	FP-215SB165BP3		180 Deg.; Incl. seal & gasket

^{*} New Item — Check For Availability + Superseded Part Number



1 7	7 H/D Truck E7 Serie nt.) 12.1L 728 OHV Turbo-D				-410, E7-427, E7-460 Engs. 998-2002			
`	COOLING SYSTEM (con	<u> </u>	,,					
QTY 1 1	THERMOSTAT (cont.) Thermostat Gasket Water Outlet Gasket	DESCRIPTION Check valve housing Water outlet manifold						
	ENGINE BLOCK & PARTS							
QTY 1 30	GASKETS Oil Pan Gasket Isolator Bushing	YEARS 02-98 02-98	PART NO. FP-579GB422 FP-41GC212	SIZE	DESCRIPTION Rubber Use w/FP-579GB422 oil pan gskt.			
QTY 1 1	GASKET SETS Gasket Conversion Set In-Frame Gasket Set	YEARS 02-98 02-98	PART NO. FP-126SB191 FP-PGM334AIF	SIZE	DESCRIPTION Incl. Head Gaskets			
QTY 7	CAM BEARINGS Cam Brg.	YEARS 02-98	PART NO. FP-59GB42		DESCRIPTION Formerly FP-59GB37			
QTY 1 1 1 1 1	OIL COOLERS & FILTERS Oil Cooler Gasket Oil Cooler Gasket O-Ring O-Ring O-Ring O-Ring	YEARS 02-98 02-98 02-98 02-98 02-98	PART NO. FP-549GB28AP4 FP-56AX392 FP-446GC225A FP-446GC1161 FP-446GC1160	SIZE	DESCRIPTION Cooler to water inlet housing Cooler to water pump outlet housing Oil cooler tube seal Oil inlet tube Oil inlet tube to manifold			
	CRANKSHAFT/OIL PU	ИP						
QTY 1 1 1	SEALS - REAR CRANK Oil Seal Oil Seal Oil Seal Kit	YEARS 02-98 02-98 02-98	PART NO. FP-446GC316 FP-446GC310P12 FP-57GC186B	SIZE	DESCRIPTION Front; 4" O.D.; Neoprene Rear; Supersedes FP-446GC335; PTFE; w/Wear Sleeve Rear; Neoprene; Incl. Seal & Wear Sleeve			
1 1 1	MAIN BEARINGS Main Set Main Set Main Set Main Set Thrust Washer Set	YEARS 02-98 02-98 02-98 02-98	PART NO. FP-57GC387 FP-57GC387AP10 FP-57GC387AP20 FP-57GC2144	SIZE STD 10 20 STD	DESCRIPTION			
QTY 1 1	OIL PUMP O-Ring Oil Pump Cover Gasket	YEARS 02-98 02-98	PART NO. FP-56AX470 FP-590GB1243B	SIZE	DESCRIPTION Oil pickup tube gasket			
	CYLINDER COMPONEN	NTS						
QTY 6 6 6 6 6	LINERS Liner w/o Sealing Rings Liner w/o Sealing Rings Cylinder Kit Complete Cylinder Kit Complete Cylinder Kit Complete	YEARS 02-98 02-98 02-98 02-98 02-98	PART NO. FP-509GC475 * FP-509GC463 FP-215SB219E FP-57GC3127463 * FP-57GC3127 *	STD STD STD STD	DESCRIPTION Stand-up height .0214"029" Stand-up height .022"027" 16.5:1 C.R. 16.9:1 C.R.; Incl. 509GC463 Liner & 240GC5124M Crown. 16.9:1 C.R.; Incl. 509GC475 Liner & 240GC5124M Crown.			
QTY 6 12 6 6 6	PISTONS Pin Piston Pin Retainer Piston Cooling Nozzle Sealing Ring Pin Bushing	YEARS 02-98 02-98 02-98 02-98 02-98	PART NO. FP-182GC2223 FP-97AX127 FP-115GC316 FP-52AX47 FP-187GB29 *	SIZE	Oil cooling nozzle seal			
12 6 6 6	CONNECTING RODS & BRGS. Con. Rod Bolt Rod Pair Rod Pair Rod Pair	YEARS 02-98 02-98 02-98 02-98	PART NO. FP-396GC24M FP-62GB2396AP1 FP-62GB2396AP10 FP-62GB2396AP20	SIZE STD 10 20	DESCRIPTION M16 x 1.5 x 76MM			
QTY 6	PISTON RINGS Ring Set Single Cylinder	YEARS 02-98	PART NO. FP-353GC2142	SIZE	DESCRIPTION Plasma rings			
	CLUTCH							
QTY 1	CLUTCH Ball Brg.	YEARS 02-98	PART NO. FP-46AX534	SIZE	DESCRIPTION Rear pilot bearing kit			
	KITS							
QTY 1 1	OVERHAUL KIT In-Frame Overhaul Kit Complete Overhaul Kit	YEARS 02-98 02-98	PART NO. FP-IFKE7EUP FP-OHE7EUP	SIZE	DESCRIPTION			



	H/D Truck E7 Series A-SET, A-SET-AC, A-SET-AI Engs. 18 12.1L 728 OHV Turbo-Diesel L6 (E7 A-Set), 4.875" Bore 2002-2010						
	CYL. HEAD & PARTS						
QTY 1 2	GASKETS Head Set Head Set	YEARS 10-02 10-02	PART NO. FP-215SB337A * FP-57GC2176	SIZE	DESCRIPTION w/o Head Gaskets Incl. Head Gasket & Fire Rings only		
QTY 12 48	VALVE Exhaust Keeper	YEARS 10-02 10-02	PART NO. FP-688GC344 * FP-54GC25	SIZE	DESCRIPTION Exh. & Int.; For 3/8" Stem Dia.		
	INT & EXH MANIFOLDS						
1	INT. & EXH. MANIFOLDS Exhaust Manifold Gasket	YEARS 10-02	<i>PART NO.</i> FP-573GB257A	SIZE	DESCRIPTION		
6	Exhaust Manifold Gasket Exhaust Manifold Gasket	10-02 10-02 10-02	FP-573GB310B FP-573GB310A +		w/Steel band, 4 bolt holes w/Steel band, 4 bolt holes; When depleted use FP-573GB310B		
	FUEL SYSTEM & PART	S					
QTY 1	TURBOCHARGER Turbocharger/Manifold Gasket	YEARS 10-02	<i>PART NO.</i> FP-590GB1189A	SIZE	DESCRIPTION To Exh. manifold; Single port		
	COOLING SYSTEM						
	WATER PUMP Water Pump Gasket Kit	YEARS 10-02	PART NO. FP-57GC182	SIZE	DESCRIPTION		
1	Water Pump Housing Gasket	10-02	FP-610GB216		7-Hole		
1	Water Passage Gasket	10-02	FP-56AX107		To water pump housing; 2-Hole		
—	ENGINE BLOCK & PAR GASKET SETS	YEARS	PART NO.	CIZE	DESCRIPTION		
1	Gasket Conversion Set	10-03	FP-21089679 *	SIZE	From 12/17/2003- up		
1	Gasket Conversion Set In-Frame Gasket Set	04-02 10-02	FP-126SB191 FP-PGM337AIF *		To 12/16/2003 Incl. Head gskts.		
QTY 1	OIL COOLERS & FILTERS Oil Cooler Gasket	YEARS 10-02	PART NO. FP-56AX392	SIZE	DESCRIPTION Cooler to water pump outlet housing		
	CRANKSHAFT/OIL PUN	ИP					
	MAIN BEARINGS	YEARS	PART NO.	SIZE	DESCRIPTION		
1	Main Set Main Set	10-02 10-02	FP-57GC387 FP-57GC387AP10	STD 10			
1	Main Set Thrust Washer Set	10-02 10-02	FP-57GC387AP20 FP-57GC2144	20 STD			
	CYLINDER COMPONEN	NTS					
	LINERS	YEARS	PART NO.	SIZE			
6	Liner w/o Sealing Rings Liner w/o Sealing Rings	10-02 10-02	FP-509GC475 * FP-509GC463		Stand-up height .0214"029" Stand-up height .022"027"		
6	Cylinder Kit Complete	10-02	FP-57GC3124463 *		A-SET AC Engs.; 15.5:1 C.R.; Incl. 509GC463 Liner & 240GC5125M Crown		
6	Cylinder Kit Complete	10-02	FP-57GC3124 *	STD	A-SET AC Engs.; 15.5:1 C.R.; Incl. 509GC475 Liner & 240GC5125M Crown		
6	Cylinder Kit Complete	10-02	FP-57GC2261463 *	STD	A-SET Al Engs.; 14.4:1 C.R.; Incl. 509GC463 Liner & 240GC5126M Crown		
6 6	Cylinder Kit Complete Cylinder Kit Complete	10-02 10-02	FP-57GC3127463 * FP-57GC3127 *		16.9:1 C.R.; Incl. 509GC463 Liner & 240GC5124M Crown. 16.9:1 C.R.; Incl. 509GC475 Liner & 240GC5124M Crown.		
	PISTONS	YEARS	PART NO.	SIZE	DESCRIPTION		
6 12	Pin Piston Pin Retainer	10-02 10-02	FP-182GC2223 FP-97AX127				
	CONNECTING RODS &	VEADO	DARTNO	CIZE	DESCRIPTION		
Q1Y 6	BRGS. Rod Pair	YEARS 10-02	<i>PART NO.</i> FP-62GB2396AP1	SIZE STD	DESCRIPTION		
6 6	Rod Pair Rod Pair	10-02 10-02	FP-62GB2396AP10 FP-62GB2396AP20	10 20			
QTY	PISTON RINGS	YEARS	PART NO.	SIZE	DESCRIPTION		
6	Ring Set Single Cylinder	10-02	FP-353GC2142		Plasma rings		
	CLUTCH CLUTCH	VEADS	DARTNO	SIZE	DESCRIPTION		
1	Ball Brg.	YEARS 10-02	PART NO. FP-46AX534	SIZE	Rear pilot bearing kit		
	KITS						
QTY 1	OVERHAUL KIT In-Frame Overhaul Kit	YEARS 10-02	PART NO. FP-IFKE7ASET	SIZE	Incl. Cooling Nozzles		



ATTS Cont.	18 (cor	8 <i>H/D Truck</i> E7 Series nt.) 12.1L 728 OHV Turbo-Die							
		KITS (cont.)							
19					SIZE				
14.2L 864 OHV Diesel V8, 6" Bore		<u>'</u>) ENII				
Carry Carr	13	14.2L 864 OHV Diesel V8, 5" Bore							
12 Esh.									
12 Exh.						DESCRIPTION			
12 Exh.									
ALVESPRING	12	Exh.		FP-13GC2247P20	20				
12 Spring FP-575GC31 Inner COOLING SYSTEM						DESCRIPTION			
COUING SYSTEM PART NO. SIZE DESCRIPTION Thermostat seal; PTFE Material					SIZE				
THERMOSTAT	12			FP-575GC1100		Outer			
1 Oil Seal FP-447GC216A Thermostat seal; PTFE Material	071			DADTAG	0:==	DECORPTION			
ENGINE BLOCK & PARTS					SIZE				
Cam Brg. FP-59GB217 S7D Position No. 2-3-4-5		ENGINE BLOCK & PART	S						
CRANKSHAFT/OIL PUMP					_				
SEALS - FRONT CRANK PART NO. 93324 Coll Seal FP-4460C1115 Coll Seal FP-4460C1115 Coll Seal FP-4460C1115 Coll Seal Redi-Sleeve 99599 Coll H/D Truck ENDDT-865, ENDDT-866, ENDT-865, ENDT-866, ENDTB-866 Engs.	4	•	_	FP-59GB217	STD	Position No. 2-3-4-5			
Redi-Sleeve 99324 Oil Seal FP-446GC1115 Oil Seal SP-446GC1115 Oil Seal 39807 Redi-Sleeve 99599	OTY		Ρ	DARTNO	CIZE	DESCRIPTION			
SEALS - REAR CRANK PART NO. SIZE DESCRIPTION					SIZE	DESCRIPTION			
Oil Seal 39807 99599									
A					SIZE	DESCRIPTION			
T4.2L 866 OHV Diesel V8, 5.25" Bore CYL. HEAD & PARTS ATY VALVE PART NO. Keeper FP-54GC19 Spring PART NO. SIZE DESCRIPTION Spring PART NO. SIZE DESCRIPTION Exh. Outer; Not for Engs. w/single spring & flat damper COOLING SYSTEM ATY THERMOSTAT PART NO. SIZE DESCRIPTION TO II Seal FP-447GC216A Thermostat seal; PTFE Material ENGINE BLOCK & PARTS ATY CAM BEARINGS PART NO. SIZE DESCRIPTION TO II Seal FP-59GB217 STD Position No. 2-3-4-5 CRANKSHAFT/OIL PUMP ATY SEALS - FRONT CRANK PART NO. SIZE DESCRIPTION TROIS Seale FP-446GC1115 ATY SEALS - REAR CRANK PART NO. SIZE DESCRIPTION OII Seal Seal FP-446GC1115 ATY SEALS - REAR CRANK PART NO. SIZE DESCRIPTION TO II Seal Seal Seal Seal Seal Seal Seal Seal	1	Redi-Sleeve		99599					
VALVE PART NO. SIZE DESCRIPTION	20	H/D Truck END-865, 14.2L 866 OHV Diesel V8							
CALL		CYL. HEAD & PARTS							
COOLING SYSTEM THERMOSTAT PART NO. FP-447GC216A SIZE DESCRIPTION Thermostat seal; PTFE Material ENGINE BLOCK & PARTS QTY CAM BEARINGS PART NO. SIZE DESCRIPTION Thermostat seal; PTFE Material ENGINE BLOCK & PARTS QTY CAM BEARINGS PART NO. SIZE DESCRIPTION Position No. 2-3-4-5 CARNKSHAFT/OIL PUMP QTY SEALS - FRONT CRANK PART NO. 99324 1 Oil Seal FP-446GC1115 QTY SEALS - REAR CRANK PART NO. 3IZE DESCRIPTION 1 Redi-Sleeve 99599 21 H/D Truck ENDDT-865, ENDDT-866, ENDT-865, ENDTB-865, ENDTB-866 Engs. 14.2L 866 OHV Turbo-Diesel V8, 5.25" Bore CYL. HEAD & PART NO. SIZE DESCRIPTION QTY VALVE PART NO. SIZE DESCRIPTION GESCRIPTION SIZE DESCRIPTION SIZE DESCRIPTION SIZE DESCRIPTION SIZE DESCRIPTION SIZE DESCRIPTION SIZE DESCRIPTION GESCRIPTION SIZE DESCRIPTION GESCRIPTION CYL. HEAD & PART NO. SIZE DESCRIPTION GESCRIPTION GESCRIPTION GESCRIPTION SIZE DESCRIPTION GESCRIPTION				_	SIZE	DESCRIPTION			
COOLING SYSTEM QTY THERMOSTAT PART NO. FP-447GC216A PART NO. Thermostat seal; PTFE Material ENGINE BLOCK & PARTS QTY CAM BEARINGS PART NO. FP-59GB217 STD Position No. 2-3-4-5 CRANKSHAFT/OIL PUMP QTY SEALS - FRONT CRANK PART NO. SIZE DESCRIPTION 1 Redi-Sleeve 99324 Oil Seal FP-446GC1115 QTY SEALS - REAR CRANK PART NO. SIZE DESCRIPTION 1 No. SIZE DESCRIPTION 2 CAM BEARINGS PART NO. SIZE DESCRIPTION 2 CRANKSHAFT/OIL PUMP 2 SEALS - FRONT CRANK PART NO. SIZE DESCRIPTION 39807 Redi-Sleeve 99599 2 APRT NO. SIZE DESCRIPTION 39807 SEALS - REAR CRANK PART NO. SIZE DESCRIPTION 39807 Redi-Sleeve 99599 2 APRT NO. SIZE DESCRIPTION 39807 SEALS - REAR CRANK PART NO. SIZE DESCRIPTION 39807 SE				_	SIZE				
Thermostat seal; PTFE Material ENGINE BLOCK & PARTS CAM BEARINGS PART NO. SIZE DESCRIPTION 4 Cam Brg. FP-59GB217 STD Position No. 2-3-4-5 CRANKSHAFT/OIL PUMP SEALS - FRONT CRANK PART NO. SIZE DESCRIPTION 1 Oil Seal FP-446GC1115 CTY SEALS - REAR CRANK PART NO. 10 Seal Seal 39807 Redi-Sleeve 99599 21 H/D Truck ENDDT-865, ENDDT-866, ENDT-865, ENDT-866, ENDTB-865, ENDTB-866 Engs. 1-4.2L 866 OHV Turbo-Diesel V8, 5.25" Bore CYL. HEAD & PART S QTY VALVE Reper FP-54GC19 QTY VALVE SPRING PART NO. SIZE DESCRIPTION ENDT-866, ENDTB-865, ENDTB-866 Engs. CYL. HEAD & PART NO. SIZE DESCRIPTION ENDT-866, ENDTB-866 Engs. CYL. HEAD & PART NO. SIZE DESCRIPTION ENDT-866, ENDTB-866 Engs. Wisingle spring & flat damper									
CAM BEARINGS					SIZE				
CAM BEARINGS	1			FP-447GC216A		Thermostat seal; PTFE Material			
Cam Brg. FP-59GB217 STD Position No. 2-3-4-5	OTV		5	PART NO	SIZE	DESCRIPTION			
SEALS - FRONT CRANK									
Redi-Sleeve 99324 FP-446GC1115		CRANKSHAFT/OIL PUMI	P						
Oil Seal FP-446GC1115					SIZE	DESCRIPTION			
1 Noil Seal Redi-Sleeve 39807 99599 21 H/D Truck ENDDT-865, ENDDT-866, ENDT-865, ENDTB-865, ENDTB-865 ENDTB-866 Engs. 14.2L 866 OHV Turbo-Diesel V8, 5.25" Bore CYL. HEAD & PART S QTY VALVE Keeper PART NO. FP-54GC19 QTY VALVE SPRING Spring PART NO. FP-575GC1100 SIZE DESCRIPTION Exh. Outer; Not for Engs. w/single spring & flat damper									
Tedi-Sleeve 99599 21 H/D Truck ENDDT-865, ENDDT-866, ENDT-865, ENDTB-865, ENDTB-866 Engs. 14.2L 866 OHV Turbo-Diesel V8, 5.25" Bore CYL. HEAD & PART S QTY VALVE PART NO. Keeper FP-54GC19 QTY VALVE SPRING Spring PART NO. FP-575GC1100 SIZE DESCRIPTION Exh. Outer; Not for Engs. w/single spring & flat damper					SIZE	DESCRIPTION			
T4.2L 866 OHV Turbo-Diesel V8, 5.25" Bore CYL. HEAD & PARTS QTY VALVE PART NO. Keeper FP-54GC19 QTY VALVE SPRING PART NO. SIZE DESCRIPTION 16 Spring FP-575GC1100 SIZE DESCRIPTION Exh. Outer; Not for Engs. w/single spring & flat damper									
QTY VALVE PART NO. SIZE DESCRIPTION 64 Keeper FP-54GC19 QTY VALVE SPRING PART NO. SIZE DESCRIPTION 16 Spring FP-575GC1100 SIZE DESCRIPTION Exh. Outer; Not for Engs. w/single spring & flat damper	2				Г-865,	ENDT-866, ENDTB-865, ENDTB-866 Engs.			
64 Keeper FP-54GC19 QTY VALVE SPRING 16 Spring FP-575GC1100 SIZE DESCRIPTION Exh. Outer; Not for Engs. w/single spring & flat damper		CYL. HEAD & PARTS							
Spring FP-575GC1100 Exh. Outer; Not for Engs. w/single spring & flat damper					SIZE	DESCRIPTION			
				FP-575GC1100		Exh. Outer; Not for Engs. w/single spring & flat damper			



	H/D Truck ENDDT-865, ENDDT-866, ENDT-865, ENDT-866, ENDTB-865, ENDTB-866 Engs. 21 14.2L 866 OHV Turbo-Diesel V8, 5.25" Bore (cont.)						
	COOLING SYSTEM						
QTY 1	THERMOSTAT Oil Seal	PART NO. S FP-447GC216A	SIZE	DESCRIPTION Thermostat seal; PTFE Material			
	CRANKSHAFT/OIL PUMP						
QTY 1 1	SEALS - FRONT CRANK Redi-Sleeve Oil Seal	PART NO. S 99324 FP-446GC1115	SIZE	DESCRIPTION			
QTY 1 1	SEALS - REAR CRANK Oil Seal Redi-Sleeve	PART NO. S 39807 99599	SIZE	DESCRIPTION			

Engine Kit Bill of Material



Qty.	Part No. De	escription C	Qty. Part	No. Description	Qty.	Part No.	Description	Qty.	. Part No.	Description
		cooription c		•	-		<u> </u>	Qty.		<u> </u>
(0)	FP-IFKE7	lan Kit Oannal i		542C (cont'd.)		FP-IFK5790		(0)	FP-OHE7EU	
(6)		· ·	(1) FP-215SB7	· ·	. ,	FP-57GC373A	Cylinder Kit Complete	(6)	FP-62GB2396AP20	Connecting Rod Bearing Pair
(6)	•	· ·	(1) FP-215SB7 (1) FP-215SB7	•		FP-57GC373P12 FP-57GC373P2	Cylinder Kit Complete	(1)	FP-57GC387	Main Bearing Set
(6)		·	(1) FP-215SB7 (1) PGM183A-		(-)	FP-57GC373P2 FP-57GC373P20	Cylinder Kit Complete Cylinder Kit Complete	(1)	FP-57GC387AP10	Main Bearing Set
(6) (6)	•	der Kit Complete	(I) PGWIOSA-	III-FIAIIIE GASKEI SEI	(-)	FP-62GB2393P1	Connecting Rod Bearing	(1)	FP-57GC387AP20	Main Bearing Set
(6)	•	der Kit Complete	FP-IFK	542COH	(0)	i ozabzooi i	Pair	(1)	FP-PGM334A	Head Gasket Set
(6)	•	'.	(6) FP-57GC37		(6)	FP-62GB2393P10	Connecting Rod Bearing	(1)	FP-126SB191	Conversion Gasket Set
(6)	•	'.	(6) FP-57GC37	, ,			Pair			
(6)	•	'.	(6) FP-57GC37		(6)	FP-62GB2393P20	Connecting Rod Bearing			
(6)	FP-62GB2396AP1 Conne		(6) FP-57GC37		(0)	FD 0000000000	Pair			
	Pair		(6) FP-57GC37	'6P6 Cylinder Kit Complete	(6)	FP-62GB2393P30	Connecting Rod Bearing Pair			
(6)	FP-62GB2396AP10 Conne	ecting Rod Bearing	(6) FP-62GB23		(1)	FP-215SB72DP1	Main Bearing Set			
(C)	Pair	nating Rad Rearing		Pair		FP-215SB72DP2	Main Bearing Set			
(6)	FP-62GB2396AP20 Conne Pair	ecting hou bearing	(6) FP-62GB2 3	882P10 Connecting Rod Bearing Pair		FP-215SB72DP3	Main Bearing Set			
(1)		Bearing Set	(6) FP-62GB2 3		(1)	FP-PGM187OH	Complete Overhaul			
(1)	FP-57GC387AP10 Main E	Bearing Set	(0) 020.220	Pair			Gasket Set			
(1)	FP-57GC387AP20 Main E	Bearing Set	(6) FP-62GB23	82P30 Connecting Rod Bearing		ED OLIEZ		1		
(1)		me Gasket Set		Pair		FP-OHE7	0 11 1 161 0 1 1			
(1)	FP-PGM334AIF In-Fra		(1) FP-215SB7	3	٠,	FP-215SB218D	Cylinder Kit Complete			
	ED IEVEZACET		(1) FP-215SB7		. ,	FP-215SB219E FP-215SB220A	Cylinder Kit Complete			
	FP-IFKE7ASET		(1) FP-215SB7	3	٠,,	FP-2155B220A FP-57GC2249463	Cylinder Kit Complete Cylinder Kit Complete			
(6)			(1) PGM183A -	OH Complete Overhaul Gasket Set		FP-57GC2261463	Cylinder Kit Complete			
(6) (6)	•	der Kit Complete der Kit Complete			٠,,	FP-57GC3124	Cylinder Kit Complete			
(6)	•	der Kit Complete	FP-IFK	545D	` '	FP-57GC3124463	Cylinder Kit Complete			
(6)	•		(6) FP-57GC35	55B Cylinder Kit Complete	(6)	FP-57GC3127	Cylinder Kit Complete			
(6)	,		(6) FP-57GC35	5P12 Cylinder Kit Complete	` '	FP-57GC3127463	Cylinder Kit Complete			
(6)	FP-62GB2396AP1 Conne	ecting Rod Bearing	(6) FP-57GC35		(6)	FP-62GB2396AP1	Connecting Rod Bearing			
	Pair		(6) FP-57GC35	,	(0)	FD 000 D0000 A D40	Pair			
(6)	FP-62GB2396AP10 Conne		(6) FP-57GC35		(6)	FP-02GB2390AP10	Connecting Rod Bearing Pair			
(0)	Pair		(6) FP-62GB2 3	82P1 Connecting Rod Bearing Pair	(6)	FP-62GB2396AP20	Connecting Rod Bearing			
(6)	FP-62GB2396AP20 Conne Pair		(6) FP-62GB23		(-)		Pair			
(1)		Bearing Set	(o) 11-02GB2C	Pair	(1)	FP-57GC387	Main Bearing Set			
(1)		-	(6) FP-62GB23	82P20 Connecting Rod Bearing	(1)	FP-57GC387AP10	Main Bearing Set			
(1)		Bearing Set	,	Pair	٠,,	FP-57GC387AP20	Main Bearing Set			
(2)	FP-57GC2176 Head	Gasket Set	(6) FP-62GB2 3			PGM2118A	Head Gasket Set			
(1)		me Gasket Set	(1) ED 0150D3	Pair ODD1 Main Bearing Cat	(1)	FP-57GC2119	Conversion Gasket Set			
(1)	FP-PGM337AIF In-Fra	ille dasket det	(1) FP-215SB7 (1) FP-215SB7	•		FP-OHE7AS	FT			
	FP-IFKE7CN		(1) FP-215SB7	•		FP-115GC316	Piston Cooling Nozzle			
(C)	_		(1) PGM183A-	•	. ,	FP-57GC2261463	Cylinder Kit Complete			
(6) (6)		der Kit Complete			٠,,	FP-57GC3124	Cylinder Kit Complete			
(6)		ecting Rod Bearing	FP-IFK	545DOH		FP-57GC3124463	Cylinder Kit Complete			
(0)	Pair	oung nou bouring	(6) FP-57GC35		(6)	FP-57GC3127	Cylinder Kit Complete			
(6)	FP-62GB2396AP10 Conne		(6) FP-57GC35	, ,	(6)	FP-57GC3127463	Cylinder Kit Complete			
	Pair		(6) FP-57GC35		(6)	FP-62GB2396AP1	Connecting Rod Bearing			
(6)	FP-62GB2396AP20 Conne Pair		(6) FP-57GC35	,	(6)	ED 62CB2206AB10	Pair Connecting Rod Bearing			
(1)			(6) FP-57GC35 (6) FP-62GB23		(6)	FF-02GD2390AF10	Pair			
(1)	FP-57GC387AP10 Main E	-	(o) 11-02GB2C	Pair	(6)	FP-62GB2396AP20	Connecting Rod Bearing			
(1)	FP-57GC387AP20 Main E		(6) FP-62GB23	82P10 Connecting Rod Bearing			Pair			
(1)	FP-PGM2118AIF In-Fra	me Gasket Set		Pair	٠,,	FP-57GC387	Main Bearing Set			
(1)	FP-PGM334AIF In-Fra	me Gasket Set	(6) FP-62GB2 3	3		FP-57GC387AP10	Main Bearing Set			
	ED IEI/EEEIID		(6) ED 62CB23	Pair Pair Paragina Rad Resina		FP-57GC387AP20	Main Bearing Set			
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(6)		Cooling Nozzle	(1) FP-215SB7			FP-126SB191	Conversion Gasket Set			
(6)		ier Kit Complete	(1) FP-215SB7			FP-21089679	Conversion Gasket Set			
(6)	FP-62GB2396AP1 Conne Pair	ecting Hog Bearing	(1) FP-215SB7	•	- '			-		
(6)	FP-62GB2396AP10 Conne	ecting Rod Bearing	(1) PGM183A-			FP-OHE7CN				
(0)	Pair	gou bouning		Gasket Set		FP-115GC316	Piston Cooling Nozzle			
(6)	FP-62GB2396AP20 Conne	ecting Rod Bearing	FP-IFK	570		FP-57GC3118A	Cylinder Kit Complete			
	Pair				(6)	FP-62GB2396AP1	Connecting Rod Bearing			
(1)		Bouring Co.	(6) FP-57GC37 (6) FP-57GC37		(-)		Pair			
(1)		Dodining Cot	(6) FP-57GC37 (6) FP-57GC37		(6)	FP-62GB2396AP10	Connecting Rod Bearing Pair			
(1)			(6) FP-57GC37		(6)	FD-62GR2306AD20	Connecting Rod Bearing			
(1)	FP-PGM334AIF In-Fra	and dadnot dot	(6) FP-57GC37		(0)	02GD2J30AP2U	Pair			
	FP-IFK542C		(6) FP-62GB23		(1)	FP-57GC387	Main Bearing Set			
(6)		der Kit Complete		Pair	(1)	FP-57GC387AP10	Main Bearing Set			
(6)	•	der Kit Complete	(6) FP-62GB2 3		٠,,	FP-57GC387AP20	Main Bearing Set			
(6)	•	ler Kit Complete	(c) FR ***	Pair		PGM2118A	Head Gasket Set			
(6)	•	der Kit Complete	(6) FP-62GB2 3	193P20 Connecting Rod Bearing Pair	(1)	FP-57GC2119	Conversion Gasket Set			
(6)	•	ler Kit Complete	(6) FP-62GB23			ED OLIEZEU	n	1		
(6)	FP-62GB2382P1 Conne	ecting Rod Bearing	(O) 11-02GB20	Pair		FP-OHE7EU				
	Pair		(1) FP-215SB7			FP-115GC316	Piston Cooling Nozzle			
(6)		acting Rod Rearing	(1) FP-215SB7	•	٠,,	FP-215SB219E	Cylinder Kit Complete			
(6)	Pair FP-62GR2382P20 Conne		(1) FP-215SB7	2DP3 Main Bearing Set	(6)	FP-62GB2396AP1	Connecting Rod Bearing Pair			
(6)	FP-62GB2382P20 Conne Pair	ecting Rod Bearing	(1) PGM187-IF		(6)	FP-62GB2396AP10	Connecting Rod Bearing			
(0)		ecting Rod Bearing			(*)		Pair			
(6)		-			1			I		
(6)	Pair	'd. next column)					(cont'd. next column)			



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Mack® Engine Overhaul Tips

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CAMSHAFT

Thoroughly clean camshaft and inspect camshaft lobes. Replace if cam lobes are pitted, scored, cracked, or worn. Minimum camshaft lift at push rod end of lobe is 0.300". Inspect camshaft journals and replace camshaft if journals are worn or scored. Measure valve lifter bores in the cylinder block to assure that they meet specification and inspect lifters for unusual wear patterns, galling, cracking, or pitting and replace suspect lifters. If engine is in an upright position, ensure that the lifters are retained in the up position prior to installing the camshaft.

CRANKSHAFT

Clean crankshaft and visually inspect main and rod journals for scratches, grooves, wear, taper, and out-of-round. The maximum tolerance for out-of-round is 0.00035" and main journal O.D. should be between 3.9980" - 3.9990". Crankshafts must be magnafluxed to check for cracks at each overhaul. Inspect crankshaft gear for chipped or broken teeth, wear, and cracking.

CONNECTING RODS

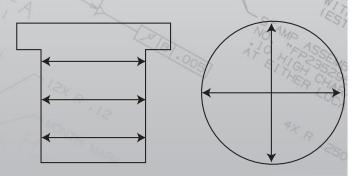
Inspect connecting rod for gouges or nicks and inspect bolt holes. It is recommended that connecting rod capscrews be replaced at each overhaul. Ensure that the rods and their corresponding caps are kept together. Inspect crankpin and piston pin bushing bore diameters to assure that they fall within specification. If the crankpin diameter does not fall within specification, replace the rod. If the piston pin bushing diameter is not within specification, the piston pin bushing must be replaced. Following installation of the piston pin bushing on the connecting rod, check the rod for bend and twist. Maximum allowable bend of the rod within 12" is 0.004" and maximum allowable twist within 12" is 0.010". When installing the piston and rod assembly into the liner, rotate the rod 15° to avoid contact with the piston cooling nozzle. Do not force the piston. If the installation requires excessive force, this may indicate an incorrectly aligned piston ring.

CYLINDER LINER

The purpose of the cylinder liner is to allow transfer of combustion heat to engine coolant, seal combustion pressure in conjunction with the head gasket and piston rings, and guide piston travel during engine operation. The correct protrusion of the liner flange above the top deck along with uniform counterbore is critical in providing satisfactory liner life and head gasket seal.

Visually inspect the inside surface of the liner for scuffing or scoring and measure the I.D. of the liner for out-of-round and taper. Measurements should be taken at three different levels (bottom, center, and just below the top of ring travel) and two different directions 180° apart.

Check cylinder block bore for out-of-round and taper as above at three different levels and 180° apart. If bore exceeds specification for out-ofround or taper, the block must be rebored to accept the next applicable oversize liner. Install the liner within 11/2" above the deck and blow out the counterbore area with compressed air to remove any foreign material that may have accumulated during installation. After liner is fully seated, check to ensure that the liner flange height is within specification. Cylinder liner protrusion must not vary more than 0.001" under the same head. When checking liners for outof-round or taper, the liners should always be installed in the block to ensure correct measurements are obtained.







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VIBRATION DAMPER

Inspect vibration damper for signs of leakage, nicks, or dents – if any of these are present, then the damper must be replaced. Check condition of bolt holes for signs of wear. The damper should have a rolled lip (approximately 1/8") on its outer edge. If this ridge is not present - the back of the damper is flush with the outer edge – the damper has internal damage and must be replaced. There should be no rattle when the damper is shaken. Check for bulging on the damper housing by measuring from the front to rear face at four locations 90° apart (with the paint removed at measuring locations). If the thickness variation exceeds specification (0.010"), then the damper must be replaced. If the engine is still in the chassis, the damper can be inspected by operating the vehicle for at least 30 minutes and then stopping the engine. The surface temperature of a properly functioning damper (approximately 180°) should be greater than the ambient temperature in the engine compartment. To prevent possible damage to the crankshaft, if the damper is at all suspect, then the damper should be replaced.

CYLINDER HEAD

Cylinder heads should not be removed prior to removal of nozzle holders and nozzle fuel inlet tubes. Push rods, rocker arm shaft assemblies, and valve yokes should be labeled in relation to position for re-installation to maintain wear surfaces if components will be reused. It is recommended that cylinder heads are pressure tested and inspected for leaks. The head should be checked for flatness - the surface must be flat within 0.0015" over 18". Four valve head E6 engines utilize a valve stem seal on later models to control oil flow to the valve guide. This seal (P/N FP-446GC328) is designed for use on applications utilizing 3/8" valve stems. These have been used in all engines manufactured since June 1987. Earlier engines used 7/16" valve stems and this seal therefore cannot be used on these engines.

It is recommended that the old style 7/16" components be replaced with the 3/8" components if the engine has the updated drilled rocker arms. **DO NOT MIX THE OLD STYLE COMPONENTS AND NEW STYLE COMPONENTS.**

PISTON RINGS

Piston Ring Instructions Ring Replacement Chart for Ring Set FP-353GC2139

Note: Top ring and 2nd ring are identical **Top Groove Keystone Ring**



2nd Groove Keystone Ring

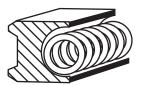


3rd Groove Key-S Twist Ring



4th Groove Oil Ring Assembly

INSTALL EITHER SIDE UP







Piston Ring Installation Instructions

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Preparation of Pistons

MODEL ENDT-675/676 AND E6 (LINER BORE 4.875 DIAMETER)

PREPARATION OF PISTONS

Keystone Ring Grooves: Inspect ring grooves using a standard micrometer. Place .120 diameter pins in grooves to be measured diametrically opposite to each other and measure diameter over pins. Each groove must be measured in two places, perpendicular and parallel to the pin bore. Refer to *Figure 1* and *Chart 1* for minimum keystone groove service limits. If measurements are less than those shown, piston must be replaced.

Chart 1: Service limit minimum keystone groove diameter over .120 diameter pins.

4.875 BORE DIAMETER SIX CYL. ENGINE						
TOP GROOVE	3RD GROOVE					
4.912	4.916	4.918				

Oil Ring Groove: Check side clearance on new and used pistons by placing the outer face of oil ring in the groove, check with a feeler gage at several locations around the piston. (see *Figure 2*)

Check Piston Ring End Clearance:

Place ring in a cylinder liner of 4.875 bore diameter. Use a piston to square the ring in the bore. Do not check ring end gap in a worn area of the cylinder bore. Check at an area below ring travel. (see *Chart 2* and *Figure 3*)

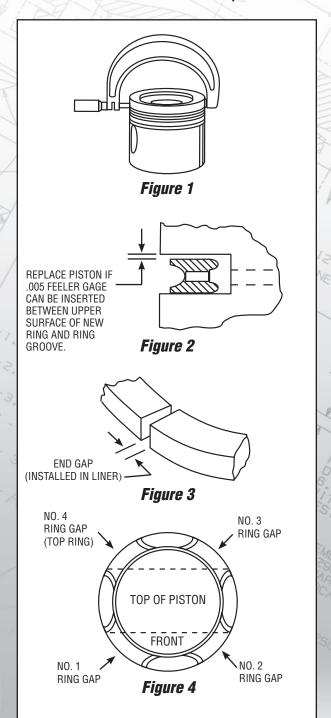
Chart 2: Piston ring end gap, when checked in 4.875 gage diameter

TOP RING	SECOND RING	THIRD RING	OIL CONTROL RING
.016028	.016028	.013025	.013028

Installing Rings On Pistons:

All piston rings must be installed over the top of the piston. Install oil ring first in the lower groove, then compression rings starting from lowest groove up.

- 1. Place the oil ring expander in the oil ring groove. Make sure the ends of expander are not overlapped, because the ring assembly can not be compressed into the groove. Then place the oil ring in groove over the expander with the gap ends of the ring 180 degrees opposite to those of the expander. The oil ring can be installed with either side up.
- 2. Use a suitable ring expander to install compression rings on piston. Install third compression ring first, then second and first compression rings. Expand rings just enough to clear piston ring lands. Make sure top of ring is facing up according to marking on ring. For the correct groove location of the ring on each piston, see the enclosed placement chart package with each ring set.
- 3. Stagger ring gaps as shown in *Figure 4*. Submerge piston with installed rings in engine oil prior to inserting in cylinder. Use suitable ring compressor when installing piston. Make sure that ring compressor is set squarely on top of cylinder block.







Engine Line Card Quick Reference

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Replacement Parts for Mack® available from FP Diesel

FP Diesel replacement components for Mack products cover Mack E6 2-Valve Head, Mack E6 4-Valve Head, Mack E7 PLN Engines and Mack E7 E-Tech EUP engines. This coverage extends from cylinder heads, fuel injection, cam and crankshafts, cylinder kits, valvetrain and electrical to engine bearings, transmission, hydraulic gasket sets and more.

ENGINE	Mack 2-Valve Head	Mack 4-Valve Head	Mack PLN Engines	Mack E-Tech EUP Engines	Mack A-SET Engines
Connecting Rod Bearings	•	•	•	•	•
Main Bearings	•	•	•	•	•
Camshaft & Gear Train	•	•			
Crankshaft	•	•			
Crankshaft Seals	•	•	•	•	•
Cylinder Head	•	•			
Cylinder Kits & Components	•	•	•	•	•
Gaskets & Gasket Sets	•	•	•	•	•
Cylinder Head Gasket Sets	•	•	•	•	
Overhaul Gasket Sets	•	•	•		
In-Frame Engine Kits	•	•	•	•	
Liners	•	•	•	•	•
Pistons	•	•	•	•	•
Piston Cooling Nozzle	•	•	•	•	
Rocker Cover Gaskets	•	•	•	•	
Seals	•	•	•	•	•
Valvetrain	•	•	•	•	
Vibration Damper	•	•			
FUEL SYSTEM	Mack 2-Valve Head	Mack 4-Valve Head	Mack PLN Engines	Mack E-Tech EUP Engines	Mack A-SET Engines
Fuel Pump Repair Kit	•	•			
Gaskets & Gasket Sets	•	•	•	•	•
Injector Components	•	•	•	•	
Injectors	•	•			
Mech. Governor Parts	•	•			
AIR SYSTEM	Mack 2-Valve Head	Mack 4-Valve Head	Mack PLN Engines	Mack E-Tech EUP Engines	Mack A-SET Engines
Gaskets & Gasket Sets	•	•	•	•	•
Air Compressor Parts	•	•			
Turbocharger & Kits	•	•			
LUBE SYSTEM	Mack 2-Valve Head	Mack 4-Valve Head	Mack PLN Engines	Mack E-Tech EUP Engines	Mack A-SET Engines
Oil Pan Gasket	•	•	•	•	g
Gaskets & Gasket Sets	•	•	•	•	•
Oil Cooler Gaskets	•	•	•	•	•
Oil Pump	•	•			
Oil Pump Repair Kits	•	•			
COOLING SYSTEM	Mack 2-Valve Head	Mack 4-Valve Head	Mack PLN Engines	Mack E-Tech EUP Engines	Mack A-SET Engines
Fue als Mateur Division	·		- Liigiiioo		
Fresh Water Plimn					
Fresh Water Pump Gaskets & Gasket Sets	•	•	•	•	•





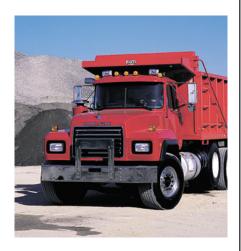
Your complete source for premium replacement parts for Mack®

PRODUCTS AVAILABLE:

FP Diesel offers replacement parts for the following Mack® engines:

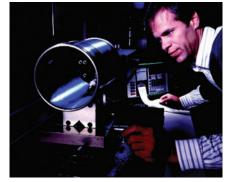
- Mack E6 2-Valve Head
- Mack E6 4-Valve Head
- Mack E7 PLN Engines
- Mack E7 E-Tech EUP Engines

See the matrix on the reverse side for a complete listing of parts.



When you demand precisionengineered replacement parts for Mack® and you need them fast, turn to Federal-Mogul, the global leader in heavy-duty powertrain components.

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24-hour online ordering is available through the Federal-Mogul *e*Connect system. Plus, your FP Diesel parts are backed by a comprehensive warranty program.



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Technical Assistance (800) 325-8886

NA Sales Support Southfield, MI (248) 354-8954



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Mack E7 Articulated Pistons

- Proprietary forging material and process provides superior crown and skirt strength
- Exceptional durability and overall life
- Manganese phosphate coating provides greater corrosion resistance against higher sulfate diesel fuels



Valvetrain Components

- Manufactured to the highest quality standards
- OEM specification materials used with upgrades to super alloys such as stellite, nickel, nimonic and inconel where needed for problem applications
- Available parts include valves, springs, guides, keepers, rotocaps, rocker parts, lifters, seals, seats and more



www.FMe-cat.com

- Commercial vehicle electronic catalog available at www.FMe-cat.com
- User friendly interface features the most complete product offering and latest coverage data
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- Eases locating components for heavy-duty applications and enables users to accurately navigate in a virtual catalog environment of commercial vehicles



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